



AGENDA

CITY OF SEASIDE
CITY COUNCIL/ SUCCESSOR
AGENCY TO THE
REDEVELOPMENT AGENCY

JOINT SPECIAL MEETING
440 HARCOURT AVE (COUNCIL CHAMBER)
Thursday, May 26, 2022
5:00 PM

NOTICE: *The City Council and the City's Boards, Commissions and Committees, will hold its public meetings in person, with a virtual option for public participation based on availability. The City of Seaside utilizes Zoom tele-conferencing technology for virtual public participation; however, we make no representation or warranty of any kind, regarding the adequacy, reliability, or availability of the use of this platform in this manner. Participation by members of public through this means is at their own risk.*

VIRTUAL PUBLIC PARTICIPATION INSTRUCTIONS

1. To view this meeting: Please click on the following link to the City of Seaside YouTube Channel: <https://www.youtube.com/c/CityofSeasideCalifornia>
2. To participate in this meeting: Using the Zoom application on your smart phone, laptop, tablet or desktop and click on this link: <https://us02web.zoom.us/j/81936832059>
WEBINAR ID: 819 3683 2059
3. To participate by phone: Please call (669) 900-9128
Enter the meeting ID 819 3683 2059 when prompted. There is no participate code – press the pound sign # after the recording prompts you.
4. To make public comment, the following options are available:
 - Before the Meeting via Email: Written comments can be emailed to CityClerk@ci.seaside.ca.us Include the following subject line: "Public Comment Item #___" (insert the agenda item number relevant to your comment). Written comments must be received at least two (2) hours prior to the meeting time on the day of the meeting.
 - During the Meeting via Oral Comments: When the Chair calls for public comment, attendees can queue to speak with the "Raise Hand" feature. On the Zoom application, click the "Raise Hand" button. On the phone, press *9.

IN PERSON PARTICIPATION INSTRUCTIONS

Members of the public participating in person and wishing to address the Commission may approach the podium when the Chair calls for public comment.

1. CALL TO ORDER

2. ROLL CALL - ESTABLISHMENT OF QUORUM

Ian N. Oglesby	Mayor/Chair
David R. Pacheco	Mayor Pro Tem/Vice Chair
Jason Campbell	Council/Agency Member
Jon Wizard	Council/Agency Member
Alexis Garcia-Arrazola	Council/Agency Member

3. PLEDGE OF ALLEGIANCE

4. PUBLIC COMMENT

Members of the public wishing to address the City Council on matters within the jurisdiction of the City of Seaside, but not on this agenda, may do so during the Public Comment period for up to three (3) minutes. Public Comments for "Presentations" on this agenda are also taken at this time; comments on specific agenda items are heard under that item. For the public record, please state your name.

5. CLOSED SESSION

Pursuant to Government Code Section 54956 et seq., the City Council and Successor Agency to Redevelopment Agency may adjourn to a Closed Session to consider specific matters dealing with litigation, certain personnel matters, property negotiations or to confer with the City Attorney. Public comments on these items are taken after being read by the City Attorney. For the public record, please state your name.

A. CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTION 54957:

Public Employment: City Manager Recruitment

B. EVALUATION PURSUANT TO GOVERNMENT CODE SECTION 54957:

Public Employee: City Attorney

6. CONSENT AGENDA

The Consent Agenda consists of those items which are routine and for which a staff recommendation has been prepared. A member of the public or a Councilmember may request that an item be pulled for further discussion.

A. ADOPT A RESOLUTION APPROVING THE PLANS AND SPECIFICATIONS FOR THE FORT ORD MILITARY RESERVATION PROPERTY DECONSTRUCTION AND DEMOLITION PHASE 1A PROJECT AND AWARDED A CONSTRUCTION AGREEMENT TO RANDAZZO ENTERPRISES INC. FOR AN AMOUNT NOT TO EXCEED \$485,321.00.

RECOMMENDATION: Adopt a resolution:

1. Approving the plans and specifications for the Fort Ord Military Reservation Property Deconstruction and Demolition Phase 1A Project;
2. Awarding a construction agreement to Randazzo Enterprises Inc. for an amount not to exceed \$485,321.00;
4. Establishing a 20% construction contingency for a total project construction amount not to exceed of \$582,385.20; and
5. Authorizing the City Manager to execute the construction agreement, and approve any amendments, extensions, and change orders until completion of the project in accordance with the plans and specifications up to the total project construction amount.

7. ADJOURNMENT

Next Regularly Scheduled Meeting:
June 2, 2022
5:00 PM

The City of Seaside is committed to providing accessible facilities and accommodating people with disabilities in all of its services programs and activities. If special considerations are needed by any person to fully participate in this meeting, contact the City Clerk at (831) 899-6707 no fewer than two business days prior to the meeting to allow reasonable arrangements. Agendas and videos of past meetings are available on demand are posted at: <http://www.ci.seaside.ca.us/129/City-Council-Committee-Agendas>

Agenda-related writings or documents provided during public meetings are available for public inspection during the meeting or from the Office of the City Clerk. This agenda is posted in compliance with California Government Code Section 54954.2(a) or Section 54956.



**CITY OF SEASIDE
STAFF REPORT**

Item No.: 5.B.

TO: City Council

FROM: Roberta Greathouse, Acting City Manager

BY:

DATE: May 26, 2022

**SUBJECT: EVALUATION PURSUANT TO GOVERNMENT CODE SECTION
54957:**

RECOMMENDATION

Public Employee: City Attorney

BACKGROUND

FISCAL IMPACT

ATTACHMENTS

None

Reviewed for Submission to the City Council by:

A handwritten signature in black ink, appearing to read "R Greathouse", written over a horizontal line.

Roberta Greathouse, Acting City Manager



**CITY OF SEASIDE
STAFF REPORT**

Item No.: 6.A.

TO: City Council

FROM: Roberta Greathouse, Acting City Manager

BY: Nisha Patel, Public Works Director/City Engineer

DATE: May 26, 2022

SUBJECT: ADOPT A RESOLUTION APPROVING THE PLANS AND SPECIFICATIONS FOR THE FORT ORD MILITARY RESERVATION PROPERTY DECONSTRUCTION AND DEMOLITION PHASE 1A PROJECT AND AWARDING A CONSTRUCTION AGREEMENT TO RANDAZZO ENTERPRISES INC. FOR AN AMOUNT NOT TO EXCEED \$485,321.00.

RECOMMENDATION

Adopt a resolution:

1. Approving the plans and specifications for the Fort Ord Military Reservation Property Deconstruction and Demolition Phase 1A Project;
2. Awarding a construction agreement to Randazzo Enterprises Inc. for an amount not to exceed \$485,321.00;
4. Establishing a 20% construction contingency for a total project construction amount not to exceed of \$582,385.20; and
5. Authorizing the City Manager to execute the construction agreement, and approve any amendments, extensions, and change orders until completion of the project in accordance with the plans and specifications up to the total project construction amount.

BACKGROUND

On March 19, 2020, the City Council adopted Ordinance No. 1082 approving a Development Agreement with KB Bakewell Seaside Venture II, LLC (Developer) for the development of approximately 122 acres of land on the former Fort Ord, a project more commonly known as Campus Town. Pursuant to section 11 of the Agreement, the City is responsible for remediating the property to be free of hazardous materials to residential standards at no cost to the Developer. The City is also obligated to deconstruct, demolish and remove buildings, structures and improvements located

within the boundaries of the development. The scope of work the City is obligated to complete includes the remediation and demolition of eight (8) former military barracks known as hammerheads and 3 additional buildings including the Visitor Center on Lightfighter Drive just east of the intersection of Lightfighter Drive and First Avenue, a fast food restaurant at Gigling Road and General Jim Moore Boulevard, and the former chapel near the intersection of Colonel Durham Road and Arnheim Road, along with parking lots and trash enclosures dispersed throughout the development boundaries. The Campus Town Development is starting with construction of Phase 1A of their project in September 2022.

The only site that would require demolition and abatement to prepare for Phase 1A of the Campus Town Development is the Visitor Center. The Fort Ord Military Reservation Property Deconstruction and Demolition Project Phase 1A (Project) is the City project to demolish the Visitor's Center building and abate the building materials and soil onsite. The City contracted with Harris & Associates to prepare demolition engineering plans and specifications and Vista Environmental to prepare a remediation work plan, reports, and specifications for all the building sites, including the Visitor Center.

The project work generally consists of decontamination, deconstruction, demolition, removal, and proper disposal of all buildings, structures, parking lots, improvements, and select trees, shrubs, bushes, and vegetation at the Visitor Center (2,100 feet² building/structure) and adjacent parking lot (25,392 feet²). The deconstruction and demolition work shall include removal and disposal of the subject structures in their entirety to include roof structures, exterior walls, interior walls, concrete slabs and foundations, windows, doors, plumbing, mechanical, communications, and electrical systems. The site work includes removal and disposal of asphalt concrete parking lots, concrete, retaining walls, steps, excavation and backfill/fill, disconnection, capping, removal, and disposal of water, wastewater, gas, and electrical utilities, and rough grading for mitigating safety concerns and facilitating drainage. The project work includes hazardous materials removal and proper disposal, including asbestos, lead-based paint and/or materials, lead-containing paint, universal waste, polychlorinated biphenyls (PCBs), and other hazardous materials. The Visitor Center and Project footprint also includes asbestos cement pipe (ACP) on-site and below-grade. Lastly, the project work includes soil sampling and soil remediation, of soil containing arsenic, hexavalent chrome, cobalt, and lead, and must be properly excavated, isolated, stockpiled, characterized (waste), and removed and disposed of at an appropriate facility.

The design was completed and the Project was released for construction bids on May 4, 2022, and bids were opened on May 20, 2022. One bid was received from Randazzo Enterprises Inc.

After review of the bid, Randazzo Enterprises Inc. was found to be the responsive and responsible bidder, with a total bid of \$485,321.00. Randazzo Enterprises Inc. has

satisfactorily completed similar projects as the Fort Ord Military Reservation Property Deconstruction and Demolition Phase 1A Project for the City and other municipalities. Staff recommends a construction agreement for this project be awarded to Randazzo Enterprises Inc.

ENVIRONMENTAL

In accordance with Title 14, California Code of Regulations (CCR, Title 14), Chapter 3 "CEQA Guidelines," Article 20, Section 15378, the proposed action is a project as defined by the California Environmental Quality Act (CEQA). Specifically, the remediation and demolition activities for construction of the Campus Town Development are considered a "Project" under CEQA Statute 21065, because the Project is an activity which may cause either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment, and is directly undertaken by a public agency and it is supported through assistance from one or more public agencies.

On March 5, 2020, the City Council adopted Resolution 20-09 certifying the Environmental Impact Report for the Campus Town Specific Plan and adopted a Mitigation Monitoring and Reporting Program (MMRP). The City will implement appropriate mitigation as identified in the adopted Mitigation Monitoring and Reporting Program. The executed Resolution and MMRP can be found by clicking the following link. [Resolution 20-09 and MMRP](#)

FISCAL IMPACT

The proposed construction agreement with Randazzo Enterprises Inc. is a not to exceed amount of \$485,321.00. In addition, a construction agreement contingency of 20%, or \$97,064.20, is necessary for expenses from unforeseeable issues that arise during construction.

With the sunset of the Fort Ord Reuse Authority in June of 2020, the City received a bond in the amount of \$6,555,000 for blight removal within the former Fort Ord. The construction agreement with Randazzo Enterprise Inc. will be funded from those bond funds, account no. 329-8110-2073, where there are sufficient funds available.

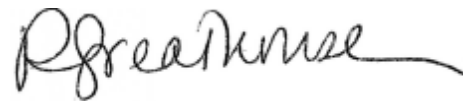
Staff recommends adopting a resolution (attachment 1) approving the plans and specifications (attachments 3 and 4) for the Fort Ord Military Reservation Property Deconstruction and Demolition Phase 1A Project; awarding a construction agreement (attachment 2) to Randazzo Enterprises Inc. for an amount not to exceed \$485,321.00; establishing a 20% construction contingency for a total project construction amount not to exceed of \$582,385.20; and, authorizing the City Manager to execute the construction agreement and approve any amendments, extensions, and change orders until completion of the project in accordance with the plans and specifications up to the

total project construction amount.

ATTACHMENTS

1. Resolution
 2. Agreement
 3. Plans
 4. Conformed Specifications
-

Reviewed for Submission to the City Council by:

A handwritten signature in dark ink, appearing to read "R Greathouse", with a long horizontal flourish extending to the right.

Roberta Greathouse, Acting City Manager

RESOLUTION NO. 22-XX

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SEASIDE

APPROVING THE PLANS AND SPECIFICATIONS FOR THE FORT ORD MILITARY RESERVATION PROPERTY DECONSTRUCTION AND DEMOLITION PHASE 1A PROJECT AND AWARDING A CONSTRUCTION AGREEMENT TO RANDAZZO ENTERPRISES INC. FOR AN AMOUNT NOT TO EXCEED \$485,321.00 AND TOTAL PROJECT CONSTRUCTION COST INCLUDING A 20% CONTINGENCY OF \$582,385.20

WHEREAS, the Fort Ord Military Reservation Property Deconstruction and Demolition Phase 1A Project (Project) was identified in the fiscal year 2021-2022 annual budget; and

WHEREAS, Harris & Associates prepared the demolition engineering plans and specifications, and Vista Environmental prepared a remediation work plan, reports, and specifications for the Visitor Center site; and

WHEREAS, the Project work includes demolishing the Visitor's Center building and parking lot and associated improvements, and abating the building materials and soil onsite to prepare for Phase 1A of the Campus Town Development; and

WHEREAS, Harris and Associates and Vista Environmental completed demolition and remediation design, and the Project was released for construction bids on May 4, 2022; and

WHEREAS, one bid was received by Randazzo Enterprises Inc.; and

WHEREAS, Randazzo Enterprises Inc. has successfully completed similar demolition projects for the City of Seaside and other municipalities in the past; and

WHEREAS, staff reviewed the bid from Randazzo Enterprises Inc. and found them to be a responsive and responsible bidder, with a total bid of \$485,321.00; and

WHEREAS, there are sufficient funds in Account No. 329-8110-2073 to issue the construction agreement; and

WHEREAS, the City will implement appropriate mitigation as identified in the adopted Mitigation Monitoring and Reporting Program associated with the Environmental Impact Report; and

NOW THEREFORE BE IT RESOLVED, that the City Council of the City of Seaside approves the conformed plans and specifications for the Fort Ord Military Reservation Property Deconstruction and Demolition Phase 1A Project dated May 2022; and

BE IT FURTHER RESOLVED, that the City of Seaside City Council authorizes the City Manager to execute a construction agreement, in substantially similar form as referenced in the staff report, with Randazzo Enterprises Inc. for an amount not to exceed of \$485,321.00; and

BE IT FURTHER RESOLVED, that the City Council of the City of Seaside authorizes the City Manager to execute up to an additional 20% contingency for written amendments, extensions, and change orders to the construction agreement outlined above such that the full value may not exceed \$582,385.20.

PASSED AND ADOPTED at a regular City Council meeting of the City of Seaside duly held on the 26st day of May, 2022, by the following vote:

AYES:	COUNCIL MEMBERS:
NOES:	COUNCIL MEMBERS:
ABSENT:	COUNCIL MEMBERS:
ABSTAIN:	COUNCIL MEMBERS:

Ian N. Oglesby, Mayor

ATTEST:

Dominique L. Davis, City Clerk

DOCUMENT 00 5200

AGREEMENT

THIS AGREEMENT, dated this _____ day of **May, 2022**, by and between **RANDAZZO ENTERPRISES INC.** whose place of business is located at **13550 BLACKIE ROAD, CASTROVILLE, CA 95012** ("Contractor"), and the City of Seaside ("Owner"), acting under and by virtue of the authority vested in Owner by the laws of the State of California.

WHEREAS, Owner, by its Resolution No. _____ adopted on the _____ day of _____ awarded to Contractor the following Contract:

CONTRACT NUMBER AG-_____

**Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A
in Seaside, California, 93955**

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, Contractor and Owner agree as follows:

ARTICLE 1 - SCOPE OF WORK OF THE CONTRACT

1.01 Work of the Contract

- A. Contractor shall complete all Work specified in the Contract Documents, in accordance with the Specifications, Drawings, and all other terms and conditions of the Contract Documents (Work).

1.02 Price for Completion of the Work

- A. Owner shall pay Contractor the following Contract Sum **FOUR HUNDRED EIGHTY FIVE THOUSAND THREE HUNDRED TWENTY ONE DOLLARS (\$485,321)** for completion of Work in accordance with Contract Documents as set forth in Contractor's Bid, attached hereto.

ARTICLE 2 - COMMENCEMENT AND COMPLETION OF WORK

2.01 Commencement of Work

- A. **At time of advertisement, the Notice of Award is expected to be issued on May 27, 2022.**
- B. Contractor shall commence Work on the date established in the Notice to Proceed.
- C. **At time of advertisement, the Notice to Proceed is expected to be issued on June 13, 2022.**
- D. Owner reserves the right to modify or alter the Commencement Date.

2.02 Completion of Work

- A. Contractor shall achieve Substantial Completion of the entire Work within **65 Calendar Days** from the Commencement Date and **15 Calendar Days** following substantial completion to achieve Final Completion.
- B. **At time of advertisement, Substantial Completion is August 16, 2022.**
- C. **At time of advertisement, Final Completion is August 31, 2022.**

ARTICLE 3 - PROJECT REPRESENTATIVES

3.01 Owner's Project Manager

- A. Owner has designated **Jason Caprio, PE, PMP** as its Project Manager to act as Owner's Representative in all matters relating to the Project.
- B. City Manager shall have final authority over all matters pertaining to the Contract Documents and shall have sole authority to modify the Contract Documents on behalf of Owner, to accept work, and to make decisions or actions binding on Owner, and shall have sole signature authority on behalf of Owner.

- C. Owner may assign all or part of the Project Manager's rights, responsibilities and duties to a Construction Manager, or other Owner Representative.

3.02 Owner's Environmental Consultant

- A. **Vista Environmental Consulting** furnished the two (2) Reports related to Hazardous Materials and Soil Remediation and shall have the rights assigned to observe, inspect, and enforce the requirements of those noted Reports.

3.03 Engineer

- A. **Harris & Associates** furnished the Plans and Technical Specifications and shall have the rights assigned to Engineer in the Contract Documents.

ARTICLE 4 - LIQUIDATED DAMAGES FOR DELAY IN COMPLETION OF WORK

4.01 Liquidated Damage Amounts

- A. As liquidated damages for delay Contractor shall pay Owner **Three Thousand Four Hundred Dollars (\$3,400)** for each calendar Day that expires after the time specified herein for Contractor to achieve Substantial Completion of the entire Work, until achieved.
- B. As liquidated damages for delay Contractor shall pay Owner **Three Thousand Four Hundred Dollars (\$3,400)** for each calendar Day that expires after the time specified herein for Contractor to achieve Final Completion of the entire Work, until achieved.

4.02 Scope of Liquidated Damages

- A. Measures of liquidated damages shall apply cumulatively.
- B. Limitations and stipulations regarding liquidated damages are set forth in Document 00 7200 (General Conditions).

ARTICLE 5 - CONTRACT DOCUMENTS

- 5.01 Contract Documents consist of the following documents, including all changes, Addenda, and Modifications thereto:

Document 00 0101	Title Page
Document 00 0110	Table of Contents
Document 00 0115	List of Drawings
Document 0 3132	Geotechnical Data and Existing Conditions
Document 00 5100	Notice of Award
Document 00 5200	Agreement
Document 00 5500	Notice to Proceed
Document 00 6113.13	Construction Performance Bond
Document 00 6113.16	Construction Labor and Material Payment Bond
Document 00 6290	Escrow Agreement for Security Deposits
Document 00 6325	Substitution Request Form
Document 00 6530	Release of Claims
Document 00 6536	Guaranty
Document 00 7200	General Conditions
Document 00 7316	Supplementary Conditions – Insurance and Indemnification
Document 00 9113	Addenda
Document 01 2000 through 31 2323	Technical Specifications
Drawings	
Hazardous Materials Survey Report	
Soil Sampling Report and Soil Remediation Work Plan	
Addendum 1	
Addendum 2	

- 5.02** There are no Contract Documents other than those listed above. The Contract Documents may only be amended, modified or supplemented as provided in Document 00 7200 (General Conditions).

ARTICLE 6 - MISCELLANEOUS

- 6.01** Terms and abbreviations used in this Agreement are defined in Document 00 7200 (General Conditions) and Section 01 4200 (References and Definitions) and will have the meaning indicated therein.
- 6.02** It is understood and agreed that in no instance are the persons signing this Agreement for or on behalf of Owner or acting as an employee, agent, or representative of Owner, liable on this Agreement or any of the Contract Documents, or upon any warranty of authority, or otherwise, and it is further understood and agreed that liability of Owner is limited and confined to such liability as authorized or imposed by the Contract Documents or applicable law.
- 6.03** In entering into a public works contract or a subcontract to supply goods, services or materials pursuant to a public works contract, Contractor or Subcontractor offers and agrees to assign to the awarding body all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. §15) or under the Cartwright Act (Chapter 2 (commencing with §16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time Owner tenders final payment to Contractor, without further acknowledgment by the parties.
- 6.04** Copies of the general prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Contract, as determined by Director of the State of California Department of Industrial Relations, are deemed included in the Contract Documents and on file at Owner's Office, and shall be made available to any interested party on request. Pursuant to California Labor Code §§ 1860 and 1861, in accordance with the provisions of Section 3700 of the Labor Code, every contractor will be required to secure the payment of compensation to his/her employees. Contractor represents that it is aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor shall comply with such provisions before commencing the performance of the Work of the Contract Documents.
- 6.05** During the term of this Agreement, Contractor warrants that it is currently registered with the Department of Industrial Relations and qualified to perform public work consistent with Labor Code section 1725.5. Contractor further warrants that any subcontractors who are subject to Public Contract code section 4104, are registered and qualified to perform public work consistent with Labor Code section 1725.5.
- 6.06** This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
- 6.07** This Agreement and the Contract Documents shall be deemed to have been entered into in the County of Monterey, State of California, and governed in all respects by California law (excluding choice of law rules). The exclusive venue for all disputes or litigation hereunder shall be in the Superior Court for the County of Monterey.

IN WITNESS WHEREOF the parties have executed this Agreement in quadruplicate the day and year first above written.

CONTRACTOR: RANDAZZO ENTERPRISES INC.

OWNER: The City of Seaside

By: _____
(Signature)

(Print Name)

Its: _____
Title (If Corporation: Chairman, President
or Vice President)

By: _____
(Signature)

(Name)

Its: _____
Title (If Corporation: Secretary, Assistant
Secretary, Chief Financial Officer or
Assistant Treasurer)

By: _____
(Signature)

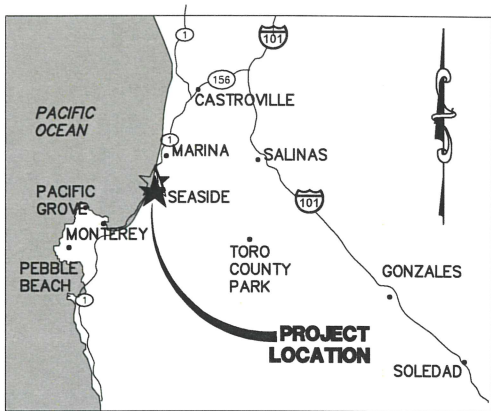
(Print Name)

(Title)

Attest: _____
City Clerk Signature

(Print Name)

END OF DOCUMENT



VICINITY MAP
NTS

PROJECT OWNERSHIP MATRIX

(SORTED WEST TO EAST)

APN	CURRENT OWNER
031-151-012	CITY OF SEASIDE
031-151-013	CITY OF SEASIDE
031-101-017	CSUMB
031-101-054	CITY OF SEASIDE
031-101-045	CSUMB

SHEET INDEX

SHEET	DWG	DESCRIPTION
01	G-1	TITLE SHEET & OVERALL PROJECT MAP
02	G-2	PROJECT NOTES
03	C-1	OVERALL UTILITY PLAN
04	C-2	VISITOR CENTER STRUCTURE & EXISTING CONDITIONS
05	C-3	VISITOR CENTER UTILITY DEMOLITION PLAN
06	C-4	VISITOR CENTER BUILDING & PARKING LOT DEMOLITION PLAN
07	C-5	VISITOR CENTER TREE REMOVAL PLAN
08	C-6	VISITOR CENTER POST-DEMOLITION & GRADING PLAN
09	C-7	MISCELLANEOUS DETAILS
10	H-1	VISITOR CENTER ABATEMENT AND REMEDIATION
11	C-8	STAGING & EROSION CONTROL PLAN

SUBCONSULTANTS

ENVIRONMENTAL & SOIL SAMPLING:
VISTA ENVIRONMENTAL CONSULTING
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860
VISTA-ENV.COM

SURVEYING:
WHITSON ENGINEERS
6 HARRIS COURT
MONTEREY, CA 93940
831-649-5225
WHITSONENGINEERS.COM

ARCHAEOLOGICAL SERVICES:
ALBION ENVIRONMENTAL
1414 SOQUEL AVENUE, SUITE 205
SANTA CRUZ, CA 95062
831-469-9128
ALBIONENVIRONMENTAL.COM

BIOLOGICAL SERVICES:
ECOSYSTEMS WEST
180 7TH AVENUE, SUITE 201
SANTA CRUZ, CA 95062
831-429-6730
ECOSYSTEMSWEST.COM

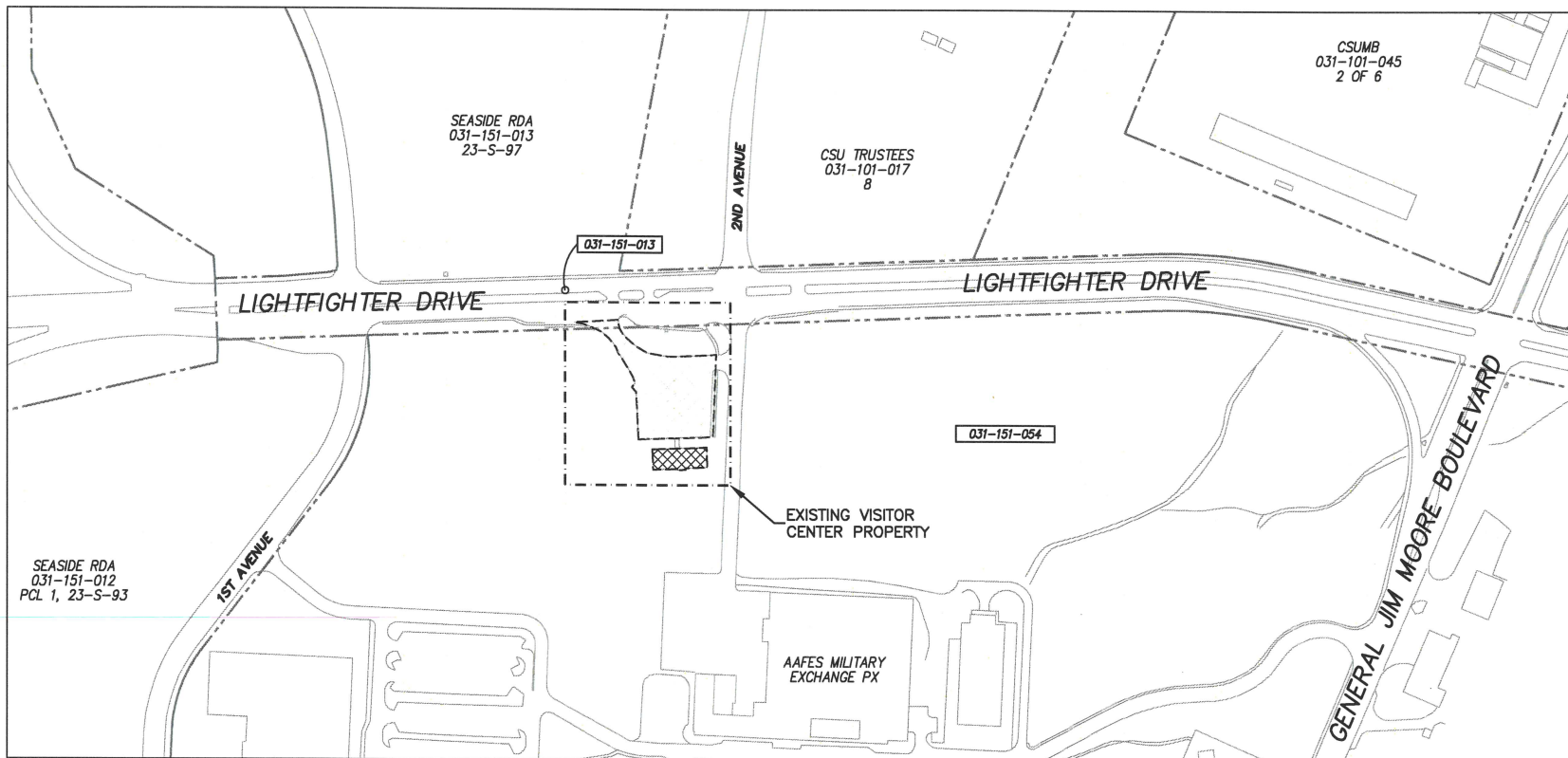
FORT ORD MILITARY RESERVATION PROPERTY DECONSTRUCTION AND DEMOLITION PROJECT—PHASE 1A CITY OF SEASIDE, MONTEREY COUNTY, CA

PROJECT CONTACT INFORMATION

OWNER:
NISHA PATEL, PE
CITY OF SEASIDE
EMAIL: NPATEL@CI.SEASIDE.CA.US

Nisha Patel 5-3-22
SIGNATURE DATE

CIVIL ENGINEER:
JASON B. CAPRIO, PE
HARRIS & ASSOCIATES
PHONE: (861)319-9251
EMAIL: JASON.CAPRIO@WEAREHARRIS.COM



SITE MAP
SCALE: 1"=150'

UTILITY AGENCY CONTACT INFORMATION

AT&T (TELEPHONE):
MARSHALL JOHNSON
G24552@ATT.COM
213-633-3122

CALIFORNIA STATE UNIVERSITY (UNIVERSITY):
JUSTIN T. CLAUSEN
JCLAUSEN@CSUMB.EDU
831-562-3601

CITY OF SEASIDE (STORM):
NISHA PATEL
NPATEL@CI.SEASIDE.CA.US
899-6884

MARINA COAST WATER DISTRICT (WATER/SEWER):
BRIAN TRUE
BTRUE@MOWD.ORG
831-883-5959

PG&E (GAS/ELECTRIC):
KATRINA LOPEZ
K1HC@PGE.COM
831-784-3581

SUDENLINK/ALTICEUSA (TELECOM):
ROBERT HAGER
ROBERT.HAGER@ALTICEUSA.COM
831-901-5682

TOPOGRAPHIC INFORMATION

THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS AN AUGMENTATION OF AERIAL MAPPING PERFORMED BY OTHERS, PROVIDED BY THE CITY, AND SUPPLEMENTED BY WHITSON ENGINEERS SURVEY JULY, 2021.

VERTICAL CONTROL: NAVD88
HORIZONTAL CONTROL: CCS ZONE 4

NORTHING	EASTING	ELEVATION
2130901.63	5737382.91	193.785'
2130761.73	5737389.28	193.772'

NO.	BY	DATE	DESCRIPTION

Harris & Associates
600 B STREET, SUITE 2000, SAN DIEGO, CA 92101
(619) 236-1778, WEAREHARRIS.COM

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HARRIS & ASSOCIATES, INC. AND SHALL NOT BE USED FOR ANY OTHER WORK WITHOUT THE WRITTEN AGREEMENT OF HARRIS & ASSOCIATES, INC. ANY UNAUTHORIZED REPRODUCTION OR ALTERATION OF THESE DRAWINGS SHALL BE PROSECUTED TO THE FULL EXTENT OF THE LAW.

DESIGNED BY: JBC
DRAWN BY: JLD
CHECKED BY: JK/RD/RB
DATE ISSUED: 5/3/2022
JOB NO. 1800113002



NOTE:
THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.

FINAL DESIGN DRAWINGS
ISSUED FOR BID



UNDERGROUND SERVICE ALERT

SECTION 4216 & 4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133 TWO (2) WORKING DAYS BEFORE YOU DIG. WEB ADDRESS: WWW.DIGALERT.ORG



CITY OF SEASIDE PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825

SHEET TITLE: TITLE SHEET & OVERALL PROJECT MAP

PROJECT NO: N/A

PROJECT TITLE: FORT ORD MILITARY RESERVATION PROPERTY
DECONSTRUCTION AND DEMOLITION PROJECT - PHASE 1A

SHEET: 01 of 11

SHEET STATUS:
☒ PRELIMINARY
☐ SEMI-FINAL
☐ FINAL
☐ OTHER

APPROVED BY: *Nisha Patel*
NISHA PATEL, PUBLIC WORKS DIRECTOR/CITY ENGINEER,
RCE 72491

DATE: 5-3-22

EXPIRATION DATE: JUNE 30, 2022

DRAWING FILE NO: G-1

I. WORK TO BE DONE

1. THE WORK CONSISTS OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS AND THE PROJECT SPECIFICATIONS. THE PROJECT WILL DECONSTRUCT, DEMOLISH, REMOVE AND DISPOSE OF BUILDINGS, STRUCTURES, DESIGNATED HARDSCAPE, IMPROVEMENTS, AND UTILITY LATERALS FOR THE VISITORS CENTER SITE AND ITS ADJACENT PARKING LOT.

II. GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THESE PLANS.
2. THE CONTRACTOR SHALL GIVE INSPECTORS, THREE (3) WORKING DAYS ADVANCE NOTICE FOR INSPECTION SERVICES.
3. ALL REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED IN WRITING BY THE DESIGN ENGINEER PRIOR TO CONSTRUCTION OF AFFECTED ITEMS, REVISIONS SHALL BE ACCURATELY SHOWN ON REVISED PLANS.
4. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR THE ENTIRE PROJECT SITE AT ALL TIMES AS DEPICTED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE SITE SHALL BE SPRINKLED AS NECESSARY TO PREVENT DUST NUISANCE. IN THE EVENT THE CONTRACTOR NEGLECTS TO USE ADEQUATE MEASURES TO CONTROL DUST, THE CITY OF SEASIDE RESERVES THE RIGHT TO TAKE WHATEVER MEASURES ARE NECESSARY TO CONTROL DUST AND CHARGE THE COST TO THE CONTRACTOR.
5. DURING CONSTRUCTION, STREETS SHALL BE CLEANED AS OFTEN AS REQUIRED TO REMOVE ANY ACCUMULATION OF MUD AND DEBRIS RESULTING FROM THIS CONSTRUCTION. SEE PROJECT SWPPP FOR APPLICABLE BMPS. IF IMPORT OR EXPORT OF DIRT IS NECESSARY, THE CONTRACTOR SHALL OBTAIN APPROVAL FOR THE HAULING ROUTE(S) FROM THE CITY OF SEASIDE. HAULING ROUTE(S) SHALL NOT GO THROUGH CSUMB CAMPUS. CONTRACTOR TO COORDINATE WITH THE CITY OF SEASIDE. THE HAULING ROUTES SHALL BE STRICTLY ADHERED TO BY THE CONTRACTOR AND ALL SUBCONTRACTORS. DIRT HAULING PERMIT REQUIRED.
6. SHOULD IT APPEAR THAT THE WORK TO BE DONE OR ANY MATTER RELATIVE THERETO IS NOT SUFFICIENTLY DETAILED OR SPECIFIED IN THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE CITY OF SEASIDE'S PROJECT MANAGER, BEFORE PROCEEDING WITH THE WORK IN QUESTION.
7. WHEN SPECIFICATIONS OR STANDARDS FROM DIFFERENT AUTHORITIES DIFFER FOR THE SAME SUBJECT MATTER, THE MORE STRINGENT SHALL GOVERN. IF THERE ARE ITEMS THAT CONTRADICT EACH OTHER IN THE BID DOCUMENTS AND THE CONTRACTOR DID NOT CLARIFY PRIOR TO THE BID, THEN THE STRICTER AND/OR BETTER QUALITY, SHALL APPLY.
8. UPON SATISFACTORY COMPLETION OF THE WORK, THE ENTIRE WORK SITE SHALL BE CLEANED UP AND LEFT WITH A SMOOTH AND NEATLY GRADED SURFACE FREE OF CONSTRUCTION WASTE AND RUBBISH OF ANY NATURE OR ANYTHING LARGER THAN 3 INCHES BY THE CONTRACTOR.
9. CONTRACTOR SHALL COORDINATE WORK WITH MONTEREY BAY AIR RESOURCES DISTRICT (MBARD) PRIOR TO START. ALL WORK SHALL BE DONE IN COMPLIANCE WITH MBARD.
10. CONSTRUCTION HOURS SHALL BE COORDINATED WITH THE CITY OF SEASIDE PRIOR TO THE START OF CONSTRUCTION. DEVIATIONS FROM THIS SCHEDULE WILL REQUIRE APPROVAL IN ADVANCE.
11. THE CONTRACTOR SHALL ERECT A TEMPORARY CONSTRUCTION FENCE ALONG THE PROJECT SITE TO SECURE THE SITES AS REQUIRED.
12. IN ORDER TO MINIMIZE CONSTRUCTION NOISE IMPACTS, ALL ENGINE DRIVEN CONSTRUCTION VEHICLES, EQUIPMENT, AND PNEUMATIC TOOLS SHALL BE REQUIRED TO USE EFFECTIVE INTAKE AND EXHAUST MUFFLERS; EQUIPMENT SHALL BE PROPERLY ADJUSTED AND MAINTAINED; ALL CONSTRUCTION EQUIPMENT SHALL BE EQUIPPED WITH MUFFLERS IN ACCORDANCE WITH OSHA STANDARDS CONSISTENT WITH MITIGATION MEASURE NOI-GDP-1 AND NOI-SDP-1 IDENTIFIED IN THE MITIGATION MONITORING PROGRAM. CONTRACTOR SHALL COMPLY WITH THE CITY OF SEASIDE NOISE ORDINANCE REQUIREMENTS AT ALL TIMES.
13. THE CONTRACTOR SHALL NOTIFY THE CITY OF SEASIDE'S PROJECT MANAGER, IN WRITING, AT LEAST 48 HOURS PRIOR TO COMMENCING WORK OF ALL DIFFERENCES BETWEEN THE FIELD CONDITIONS AND THE DESIGN INDICATED ON THE PLANS. COMMENCEMENT OF THE RELATED WORK SHALL BE SUBJECT TO THE WRITTEN APPROVAL OF THE CITY OF SEASIDE BEFORE ALTERED WORK IS STARTED VIA REQUEST FOR INFORMATION OR CHANGE. UNAUTHORIZED WORK WILL BE AT THE CONTRACTOR'S RISK & EXPENSE AND MAY BE REQUIRED TO BE REPAIRED OR REPLACED IF NOT AUTHORIZED BY THE CITY OF SEASIDE, AT CONTRACTOR'S EXPENSE.
14. THE GENERAL CONTRACTOR SHALL PROVIDE A QUALIFIED SUPERVISOR ON THE JOB SITE AT ALL TIMES DURING CONSTRUCTION.
15. ALL WORK SHALL CONFORM TO THE APPLICABLE CITY CODES. SUPERINTENDENCE OF CONSTRUCTION SHALL BE DILIGENTLY PERFORMED BY PERSON(S) AUTHORIZED TO DO SO AT ALL TIMES DURING WORKING HOURS. THE STORING OF GOODS, EQUIPMENT AND/OR MATERIALS ON THE PUBLIC SIDEWALK AND/OR A PUBLIC STREET SHALL NOT BE ALLOWED UNLESS A SPECIAL PERMIT IS ISSUED BY THE CITY OF SEASIDE.
16. THE CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY THE CITY OF SEASIDE OR WITH OTHER AGENCIES.

III. EXISTING CONDITIONS

1. EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS IS BASED ON RECORD DOCUMENTS AND AERIAL PHOTOGRAPHY. CONTRACTOR SHALL REVIEW THE PLANS AND SPECIFICATIONS AND CONDUCT FIELD INVESTIGATIONS TO VERIFY EXISTING CONDITIONS AT THE PROJECT SITE.
2. AERIAL IMAGES ARE INTENDED TO ASSIST IN PROVIDING INFORMATION TO SUPPLEMENT THE PROVIDED TOPOGRAPHY IN THE EVENT THAT THE LINE WORK DOES NOT PERFECTLY ALIGN WITH FIELD CONDITIONS.
3. INFORMATION REGARDING EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES

SHOWN ON THESE PLANS WAS TAKEN FROM RECORD DATA KNOWN TO THE DESIGN ENGINEER AND IS NOT MEANT TO BE A FULL CATALOG OF EXISTING CONDITIONS. CONTRACTOR SHALL CONDUCT FIELD INVESTIGATIONS AS REQUIRED TO VERIFY THE LOCATION, SIZE, AND ELEVATION OF ALL EXISTING SUBSURFACE IMPROVEMENTS AND UTILITIES (WHETHER SHOWN ON THESE PLANS OR NOT) PRIOR TO THE COMMENCEMENT OF WORK. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS IN THE FIELD AND INFORMATION SHOWN ON THESE PLANS.

4. ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO START OF ANY CONSTRUCTION AFFECTING SAID LINES.
5. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCEMENT OF ANY WORK.
6. IF THE CONTRACTOR FAILS TO INVESTIGATE KNOWN OR UNKNOWN EXISTING SUBSURFACE IMPROVEMENTS PRIOR TO ANY CONSTRUCTION ACTIVITIES AND UNFORESEEN CONDITIONS ARISE, ALL COSTS AND SCHEDULE IMPACTS WILL BE BORNE BY THE CONTRACTOR.

IV. UTILITIES

1. CONTRACTOR SHALL MAKE ARRANGEMENTS AT LEAST THREE (3) WORKING DAYS IN ADVANCE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO ANY DISCONNECTION, ABANDONMENT OF, OR WORK WITH THE LINES AND APPURTENANT STRUCTURES OF THE UTILITIES LISTED BELOW:

STORM DRAIN — THE CITY OF SEASIDE
SANITARY SEWER — MCWD
WATER — MCWD
ELECTRICAL — PG&E
TELEPHONE — AT&T
GAS — PG&E
UNIVERSITY(PRIVATE) — CALIFORNIA STATE UNIVERSITY MONTEREY BAY
TELECOM — SUDENLINK/ ALTICEUSA
COMMUNICATIONS — COMCAST

2. BEFORE DISCONNECTING UTILITY SERVICE TO ANY ESTABLISHMENT, CONTRACTOR SHALL GIVE A MINIMUM SEVEN (7) DAYS OF ADVANCE NOTICE TO ESTABLISHMENT IN WRITING BEFORE THEIR UTILITY IS SHUT DOWN. MAKE ARRANGEMENTS WITH THOSE ESTABLISHMENTS FOR A SCHEDULED SHUT DOWN AND COORDINATE DATE OF SHUT DOWN, DURATION, INCONVENIENCE, DELAYS, ETC. WITH A REPRESENTATIVE OF THE CITY OF SEASIDE.
3. BEFORE ABANDONING OR REMOVING ANY UTILITIES, CONTRACTOR IS REQUIRED TO OBTAIN ANY AND ALL NECESSARY PERMITS
4. CONTRACTOR SHALL PERFORM WORK UNDER THE ASSUMPTION THAT ALL WATER MAINS AND LATERALS ARE ASBESTOS CEMENT PIPE.

V. ABANDONMENT OF EXISTING UTILITY PIPES AND/OR CONDUITS

1. EXISTING GRADE MENTIONED IN THESE PLANS IS THE SUBGRADE UNDERNEATH BUILDING FOOTINGS OR AGGREGATE BASE IN ASPHALT PAVEMENT.
2. EXISTING UTILITY PIPES AND/OR CONDUIT TO BE DISCONNECTED, CAPPED, ABANDONED, AND/OR REMOVED WITHIN THE INDIVIDUAL PRIVATE PROPERTIES AND UP TO THE TRANSMISSION MAIN OR WITHIN PUBLIC RIGHT-OF-WAY.

VII. SEDIMENTATION AND POLLUTION CONTROL

1. EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPS) SHALL BE IMPLEMENTED AND MAINTAINED TO MINIMIZE AND/OR PREVENT THE ENTRAINMENT OF SOIL IN RUNOFF FROM DISTURBED SOIL AREAS ON CONSTRUCTION SITES.
2. SEDIMENT CONTROL BMPS SHALL BE IMPLEMENTED AND MAINTAINED TO PREVENT AND/OR MINIMIZE THE TRANSPORT OF SOIL FROM THE CONSTRUCTION SITE.
3. APPROPRIATE BMPS FOR CONSTRUCTION RELATED MATERIALS, WASTES, SPILLS, OR RESIDUES SHALL BE IMPLEMENTED TO ELIMINATE OR REDUCE TRANSPORT FROM THE SITE TO STREETSS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES VIA WIND OR RUNOFF.
4. BMPS SHALL BE INSPECTED PRIOR AND POST STORM EVENTS AND SHALL BE PROPERLY MAINTAINED.
5. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT THE CONSTRUCTION SITES AND MUST NOT BE DISCHARGED TO RECEIVING WATERS, ADJACENT ROADWAYS, CATCH BASINS, OR OTHER COMPONENTS OF THE LOCAL STORM DRAIN SYSTEM.
6. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BMPS AND MEASURES FOR BOTH THE PROJECT SITE, AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
7. CONTRACTOR SHALL IMPLEMENT ALL SEDIMENTATION AND POLLUTION CONTROL MEASURES IDENTIFIED IN THESE PLANS.
8. ALL FINES IMPOSED AND REPAIRS REQUIRED FOR NOT FOLLOWING PROPER BMPS AND POLLUTION CONTROL MEASURES SHALL BE PAID BY THE CONTRACTOR.

VII. RECORD DRAWINGS

1. DISPOSITION OF ALL UTILITIES ON SITE. THE RECORD DRAWINGS SHALL BE "REDLINED" ON A SET OF CONSTRUCTION PRINTS AND INDICATE THE FOLLOWING:
- a. IDENTIFY LOCATION, SIZE, MATERIAL, AND TYPE OF UTILITY THAT WAS ABANDONED OR LEFT IN PLACE AND THE CONDITION THEREOF.
- b. NOTE THE LOCATION AND ELEVATION (OR APPROXIMATE DEPTH RELATIVE TO FINISH GRADE) OF ANY EXISTING UTILITIES LEFT IN PLACE. CONTRACTOR SHALL DELIVER REDLINED PRINTS TO THE DESIGN ENGINEER WITH A COPY TO THE CITY OF SEASIDE.

2. THE DESIGN ENGINEER INCORPORATES CONTRACTOR'S INFORMATION INTO RECORD DRAWINGS AND SUBMITS THEM TO THE CITY OF SEASIDE.

VIII. STATEMENT OF RESPONSIBILITY

1. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY THE CITY OF SEASIDE & ITS REPRESENTATIVES AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
2. CONTRACTOR SHALL COMPLY WITH ALL STATE, COUNTY, AND CITY LAWS AND ORDINANCES; AND REGULATIONS OF THE DEPARTMENT OF INDUSTRIAL RELATIONS, O.S.H.A. AND INDUSTRIAL ACCIDENT COMMISSION RELATING TO SAFETY AND CHARACTER OF WORK EQUIPMENT AND LABOR PERSONNEL.

IX. UNAUTHORIZED CHANGES AND USES

1. THE DESIGN ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR UNAUTHORIZED USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

X. HAZARDOUS MATERIALS NOTES

1. PLEASE SEE THE 'HAZARDOUS MATERIALS SURVEY REPORT' BY VISTA ENVIRONMENTAL CONSULTING DATED JANUARY 14, 2022 FOR THE CONTRACTOR'S RESPONSIBILITIES RELATED TO SAID WORK. THE REPORT SHALL BE READ AND UNDERSTOOD IN ITS ENTIRETY AND ALL WORK SHALL BE PERFORMED IN STRICT ADHERENCE TO THE REPORT.
2. THE CONTRACTOR (OR RETAINED SUBCONTRACTOR) MUST BE A CAL/OSHA REGISTERED AND CALIFORNIA STATE LICENSED (C-22) ASBESTOS ABATEMENT CONTRACTOR.
3. THE VISITOR CENTER HAS ASBESTOS, LEAD-BASED PAINT AND/OR MATERIALS, LEAD-CONTAINING PAINT, UNIVERSAL WASTE, SUSPECT POLYCHLORINATED BIPHENYLS (PCB), AND OTHER HAZARDOUS MATERIALS.
4. THE VISITOR CENTER HAS ASBESTOS CEMENT PIPE (ACP) ON-SITE, BELOW-GRADE WITHIN THE FOOTPRINT OF THE WORK.

XI. SOIL SAMPLING AND SOIL REMEDIATION NOTES

1. PLEASE SEE THE "SOIL SAMPLING REPORT AND SOIL REMEDIATION WORK PLAN" BY VISTA ENVIRONMENTAL CONSULTING DATED MARCH 4, 2022 FOR THE CONTRACTOR'S RESPONSIBILITIES RELATED TO SAID WORK. THE REPORT SHALL BE READ AND UNDERSTOOD IN ITS ENTIRETY AND ALL WORK SHALL BE PERFORMED IN STRICT ADHERENCE TO THE REPORT.
2. THE SOIL WITHIN THE VISITOR CENTER PROPERTY HAS ARSENIC, HEXVALENT CHROME, COBALT, AND LEAD, WHICH MUST BE PROPERLY EXCAVATED, ISOLATED, STOCKPILED, CHARACTERIZED (WASTE), AND REMOVED AND DISPOSED OF AT AN APPROPRIATE FACILITY.
3. NO MIXING OF EXCAVATED MATERIALS AND SOILS BENEATH THE VISITOR CENTER STRUCTURE AND HARDSCAPE SURFACES, RESPECTIVELY, WILL BE ALLOWED.
4. FOLLOWING SOIL SAMPLING, OVER-EXCAVATION(S), AND WASTE CHARACTERIZATION(S), ANY AND ALL MATERIAL AS DEFINED SHALL BE LOADED, TRANSPORTED, AND PROPERLY DISPOSED OF AT THE APPROVED, SELECT SOIL DISPOSAL FACILITY.

XII. EXCAVATION NOTES

1. THE VISITOR CENTER HARDSCAPE SURFACES, WHICH ARE PREDOMINANTLY ASPHALT CONCRETE PAVEMENT MATERIAL OF PARKING LOT(S) AND ROADWAYS, SHALL BE OVER-EXCAVATED TO A DEPTH OF TWO (2) FEET BELOW GROUND SURFACE. EXISTING CONCRETE CURB, GUTTER, AND SIDEWALK NOT IDENTIFIED FOR DEMOLITION ACTIVITIES SHALL REMAIN UNDISTURBED AND IS NOT INCLUDED IN OVER-EXCAVATION REQUIREMENTS.
2. THE VISITOR CENTER STRUCTURE, INCLUDING TWO (2) FEET BEYOND THE STRUCTURE'S 'DRIP-LINE' SHALL BE OVER-EXCAVATED TO A DEPTH OF TWO (2) FEET BELOW GROUND SURFACE. EXISTING CONCRETE CURB, GUTTER, AND SIDEWALK NOT IDENTIFIED FOR DEMOLITION ACTIVITIES SHALL REMAIN UNDISTURBED AND IS NOT INCLUDED IN OVER-EXCAVATION REQUIREMENTS.
3. UPON OVER-EXCAVATION ACTIVITIES, A CONFIRMATORY SOIL SAMPLING PROGRAM WILL BE IMPLEMENTED BY THE CITY OF SEASIDE OR OWNER'S REPRESENTATIVE WITH AN EXPECTED DOWNTIME OR STAND-BY TIME OF FIVE (5) CONSECUTIVE BUSINESS DAYS. IF ADDITIONAL OVER-EXCAVATION IS NECESSARY BASED UPON UNFAVORABLE SOIL SAMPLING TEST RESULTS (I.E. EXCEEDING ESL'S AND RSL'S), ADDITIONAL ONE (1)- FOOT SECTIONS BELOW GROUND SURFACE WILL BE EXCAVATED, REMOVED, AND SPOILED NEARBY. THIS PROCESS WILL CONTINUE UNTIL SOIL SAMPLING TEST RESULTS ARE BELOW RESIDENTIAL ESL'S AND RSL'S.

XIII. WASTE CHARACTERIZATION NOTES

1. THE CITY OF SEASIDE OR OWNER'S REPRESENTATIVE WILL SAMPLE AND ANALYZE THE OVER-EXCAVATED MATERIAL(S)/SPOILS/STOCKPILES CONSISTENT WITH THE APPROVED, SELECT SOIL DISPOSAL FACILITY'S SPECIFIC ANALYTE LIST AND SUBMIT SAID RESULTS TO THE CONTRACTOR. THE CONTRACTOR SHALL THEN SUBMIT A WASTE PROFILE APPLICATION AND OBTAIN WASTE MANIFEST(S).

ABBREVIATIONS

AC ASPHALT CONCRETE
AD ADMINISTRATION BUILDING
AR ARMORY BUILDING
ACM ASBESTOS CONTAINING MATERIAL
A1&T AMERICAN TELEPHONE AND TELEGRAPH COMPANY
CF CAFETERIA BUILDING
CG CURB AND GUTTER
CO CLEANOUT
CONC CONCRETE
CSUMB CALIFORNIA STATE UNIVERSITY MONTEREY BAY
CY CUBIC YARD
E ELECTRICAL
EX (E) EXISTING
EMH ELECTRICAL MANHOLE
FORA FORT ORD REUSE AUTHORITY
FH FIRE HYDRANT
G GAS
GR GRATE ELEVATION
HB HOSE BIBB
INV INVERT ELEVATION
JP JOINT POLE
JT JOINT TRENCH
LF LINEAR FEET
MBARD MONTEREY BAY AIR RESOURCES DISTRICT
MCWD MARINA COAST WATER DISTRICT
MIN MINIMUM
PG&E PACIFIC GAS & ELECTRIC
OH OVERHEAD
RIM RIM ELEVATION
RP ROLLING PIN BUILDING
SD STORM DRAIN
SDCB STORM DRAIN CATCH BASIN
SDMH STORM DRAIN MANHOLE
SS,SWR SANITARY SEWER
SSMH SANITARY SEWER MANHOLE
TEL TELEPHONE
TPZ TREE PROTECTION ZONE
TYP TYPICAL
W WATER
WV WATER VALVE

LEGEND

--- LIMITS OF WORK
--- PROPERTY/PARCEL LINE

--- BUILDING DEMOLITION EXTENTS

--- HARDSCAPE DEMOLITION EXTENTS

--- EXTENT OF JURISDICTION / UTILITY RELOCATION

--- CAP/DISCONNECTION POINT
--- ABANDON/DEMOLISH UTILITY MAIN

--- SD --- EXISTING STORM DRAIN LINE
--- SS --- EXISTING SANITARY SEWER LINE
--- E --- EXISTING ELECTRICAL LINE
--- G --- EXISTING GAS LINE
--- W --- EXISTING DOMESTIC WATER LINE
--- T --- EXISTING TELECOM LINE

--- EXISTING STORM DRAIN INLET
--- EXISTING STORM DRAIN CURB INLET
--- EXISTING STORM DRAIN MANHOLE
--- EXISTING SEWER MANHOLE
--- EXISTING ELECTRICAL STRUCTURE
--- EXISTING FIRE HYDRANT
--- EXISTING HOSE BIB
--- EXISTING LIGHT POLES
--- EXISTING WATER VALVE
--- EXISTING HANDHOLE
--- EXISTING TREE LOCATION
--- EXISTING TREE TO BE REMOVED
--- EXISTING POWER POLE
--- CORING LOCATIONS
--- TREE PROTECTION FENCING
--- SS --- EXISTING UTILITY TO BE ABANDONED IN PLACE

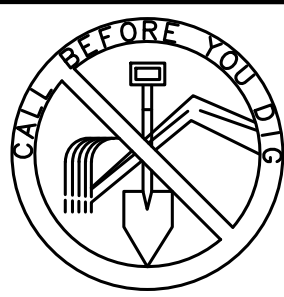
DETAIL NO.

SHEET NO.

IMAGE LABEL

SHEET NO.

IMAGE CALLOUT FOR APPROXIMATE IMAGE CAPTURE LOCATION AND DIRECTION FOR EXISTING CONDITIONS SHOWN ON SHEET 04



UNDERGROUND SERVICE ALERT

SECTION 4216 & 4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICAITON NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133 TWO (2) WORKING DAYS BEFORE YOU DIG. WEB ADDRESS: WWW.DIGALERT.ORG



CITY OF SEASIDE PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825

SHEET TITLE: PROJECT NOTES

PROJECT NO: N/A

PROJECT TITLE: FORT ORD MILITARY RESERVATION PROPERTY
DECONSTRUCTION AND DEMOLITION PROJECT – PHASE 1A

SHEET: 02 of 11

SHEET STATUS: ☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER

G-2

NO.	BY	DATE	DESCRIPTION

Harris & Associates
600 B STREET, SUITE 2000, SAN DIEGO, CA 92101
(619) 236-1778, WEAREHARRIS.COM

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DESIGNED BY: JBC	
DRAWN BY: JLD	
CHECKED BY: JK/RD/RB	
DATE ISSUED: 5/3/2022	
JOB NO. 1800113002	

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FINAL DESIGN DRAWINGS
ISSUED FOR BID



UTILITY DEMOLITION AND DECOMMISSIONING NOTES:

1.

THE CONSTRUCTION CONTRACT DOCUMENTS, INCLUDING THE FRONT-END DOCUMENTS, THESE CONSTRUCTION DRAWINGS, TECHNICAL SPECIFICATIONS, AND APPENDICES REPRESENT THE SCOPE OF WORK, BUT DO NOT IDENTIFY THE MEANS AND METHODS FOR DECONSTRUCTION AND DEMOLITION. THE CONTRACTOR SHALL DIRECT THE WORK AND IS SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. SITE VISITS, OBSERVATIONS, AND INSPECTIONS ARE UNRELATED TO MEANS AND METHODS, AND REPRESENT ONLY AN EFFORT TO AND PURPOSE OF EVALUATING THE CONTRACTOR'S CONFORMANCE WITH THE CONSTRUCTION CONTRACT DOCUMENTS.
2.

CITY OF SEASIDE MAKES NO WARRANTY OR REPRESENTATION OF EXISTING ABOVEGROUND CONDITIONS, AS-BUILT CONDITIONS, OR OTHER ABOVEGROUND ACTUAL CONDITIONS VERIFIABLE BY REASONABLE INDEPENDENT INVESTIGATION. THESE CONDITIONS ARE VERIFIABLE BY THE CONTRACTOR BY THE PERFORMANCE OF ITS OWN INDEPENDENT INVESTIGATION THAT CONTRACTOR MUST PERFORM PRIOR TO BIDDING AND CONTRACTOR MUST NOT RELY ON THE INFORMATION SUPPLIED BY OWNER REGARDING EXISTING CONDITIONS.
3.

INFORMATION SUPPLIED REGARDING EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS BASED ON INFORMATION FURNISHED TO CITY OF SEASIDE BY OTHERS (I.E. OWNERS OF SUCH UNDERGROUND FACILITIES LIKE AT&T, COMCAST, MCWD, PG&E, OR OTHERS).
4.

CITY OF SEASIDE ASSUMES RESPONSIBILITY FOR ONLY THE GENERAL ACCURACY, COMPLETENESS, OR THOROUGHNESS OF INFORMATION REGARDING UNDERGROUND FACILITIES THAT ARE OWNED BY CITY OF SEASIDE. THIS EXPRESS ASSUMPTION OF RESPONSIBILITY APPLIES ONLY IF CONTRACTOR HAS CONDUCTED THE INDEPENDENT INVESTIGATION REQUIRED OF IT UNDER DOCUMENT 007200 (GENERAL CONDITIONS) AND DISCREPANCIES WERE NOT APPARENT. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY INTERPRETATION OR CONCLUSION DRAWN FROM THIS INFORMATION.
5.

THE CONTRACTOR SHALL TAKE OUT OF SERVICE THE WATER, WASTEWATER, STORMWATER, ELECTRICAL, GAS, AND COMMUNICATIONS TO THE PROPERTIES IN THEIR ENTIRETY, INCLUDING DEMOLITION, REMOVAL, AND PROPER DISPOSAL OF SAID SERVICES, LATERALS, AND NON-ACTIVE MAINS ON-SITE UP TO THE APPROPRIATE LOCATION THAT SERVES OTHERS/OTHER PROPERTIES (I.E. PROPERTY LINES, PUBLIC RIGHT-OF-WAYS, TRANSMISSION MAINS, DISTRIBUTION MAINS, ETC), UNLESS OTHERWISE NOTED FOR PROTECTING-IN-PLACE OR TO BE RELOCATED BY OTHERS (UTILITY OWNERS).
6.

THE WORK SHALL INCLUDE DEMOLITION, REMOVAL, AND PROPER DISPOSAL OF UTILITIES AND RELATED FEATURES, INCLUDING BUT NOT LIMITED TO PIPE, VALVES, VALVE VAULTS/BOXES, THRUST BLOCKS, IRRIGATION-RELATED FACILITIES, MANHOLES, LIDS AND COVERS, CLEAN-OUTS, INLETS, CATCH BASINS, CONDUIT, WIRING, JUNCTION BOXES, HAND-HOLES, AND ANY OTHER IMPROVEMENTS RELATED TO PLUMBING, MECHANICAL, COMMUNICATIONS, AND ELECTRICAL SYSTEMS.
7.

THE WORK SHALL INCLUDE DISCONNECTING, CAPPING, REMOVING, AND DISPOSING OF WATER, WASTEWATER, STORMWATER, GAS, ELECTRICAL, AND COMMUNICATION UTILITIES IN THEIR ENTIRETY.
8.

CONTRACTOR SHALL NOT OPERATE WATER UTILITIES. WATER VALVES WILL BE ISOLATED BY MARINA COAST WATER DISTRICT (MCWD) PRIOR TO DEMOLITION OF WATER SERVICES. DEMOLITION CONTRACTOR WILL PERFORM REPAIR WORK UNDER MCWD SUPERVISION.
9.

FOR SITE SPECIFIC UTILITY DEMOTLITON, SEE SHEET 05..

GENERAL KEYNOTES

(NOT EXHAUSTIVE. SEE UTILITY DEMOLITION AND DECOMMISSIONING NOTES):

- 01

EXISTING WATER VALVE TO BE CLOSED, AND WATER MAIN TO BE DEMOLISHED AND REMOVED.
- 02

EXISTING SANITARY SEWER MAIN TO BE RELOCATED BY OTHERS. PROTECT IN PLACE AS PART OF THIS CONTRACT.
- 03

EXISTING ABANDONED TELECOM TO BE CUT AND PLUGGED FROM THE HANDHOLE ON THE EAST SIDE TO THE DEMOLITION LIMITS ON THE WEST SIDE. REMAINING TELECOM WEST OF THE DEMOLITION LIMITS, ADJACENT TO THE 1ST AVENUE AND LIGHTFIGHTER DRIVE INTERSECTION, TO BE ABANDONED IN PLACE.

NO.	BY	DATE	DESCRIPTION

**Harris & Associates**

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**UNDERGROUND SERVICE ALERT**

SECTION 4216 & 4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICAION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133 TWO (2) WORKING DAYS BEFORE YOU DIG. WEB ADDRESS: WWW.DIGALERT.ORG

FINAL DESIGN DRAWINGS
ISSUED FOR BID

**CITY OF SEASIDE PUBLIC WORKS DEPARTMENT**
ENGINEERING DIVISION

440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825

SHEET TITLE: OVERALL UTILITY PLAN

PROJECT TITLE: FORT ORD MILITARY RESERVATION PROPERTY DECONSTRUCTION AND DEMOLITION PROJECT – PHASE 1A

SHEET STATUS: ☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER

PROJECT NO: N/A

SHEET: 03 of 11

C-1



A EAST SIDE OF VISITOR CENTER; WEST-FACING VIEW
NOT TO SCALE



C WEST SIDE OF VISITOR CENTER; EAST-FACING VIEW
NOT TO SCALE

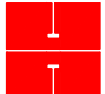


B NORTH SIDE OF VISITOR CENTER; SOUTH-FACING VIEW
NOT TO SCALE



D SOUTH SIDE OF VISITOR CENTER; NORTH-FACING VIEW
NOT TO SCALE

NOTE: FOR LOCATION OF PHOTOS, REFERENCE SHEET 06.

NO.	BY	DATE	DESCRIPTION	Harris & Associates 600 B STREET, SUITE 2000, SAN DIEGO, CA 92101 (619) 236-1778, WEAREHARRIS.COM THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY AND COPYRIGHT OF THE ENGINEER AND SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY WRITTEN AGREEMENT WITH THE ENGINEER. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND FIELD DIMENSIONS SHALL BE VERIFIED ON THE JOB SITE. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER PRIOR TO THE START OF ANY WORK.	DESIGNED BY: JBC DRAWN BY: JLD CHECKED BY: JK/RD/RB DATE ISSUED: 5/3/2022 JOB NO. 1800113002		NOTE: THIS DRAWING MAY BE A REDUCED SCALE PRINT OF THE ORIGINAL DRAWING. UTILIZE GRAPHIC SCALES TO VERIFY IF DRAWING IS A REDUCTION, AND ADJUST SCALES ACCORDINGLY TO THE GRAPHIC SCALES SHOWN.	UNDERGROUND SERVICE ALERT SECTION 4216 & 4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE @ 1-800-422-4133 TWO (2) WORKING DAYS BEFORE YOU DIG. WEB ADDRESS: WWW.DIGALERT.ORG FINAL DESIGN DRAWINGS ISSUED FOR BID	CITY OF SEASIDE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION 440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825 SHEET TITLE: VISITOR CENTER STRUCTURE & EXISTING CONDITIONS PROJECT TITLE: FORT ORD MILITARY RESERVATION PROPERTY DECONSTRUCTION AND DEMOLITION PROJECT – PHASE 1A SHEET STATUS: ☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER	PROJECT NO: N/A SHEET: 04 of 11 C-2
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UTILITY DEMOLITION AND DECOMMISSIONING NOTES:

1. THE CONSTRUCTION CONTRACT DOCUMENTS, INCLUDING THE FRONT-END DOCUMENTS, THESE CONSTRUCTION DRAWINGS, TECHNICAL SPECIFICATIONS, AND APPENDICES REPRESENT THE SCOPE OF WORK, BUT DO NOT IDENTIFY THE MEANS AND METHODS FOR DECONSTRUCTION AND DEMOLITION. THE CONTRACTOR SHALL DIRECT THE WORK AND IS SOLELY RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. SITE VISITS, OBSERVATIONS, AND INSPECTIONS ARE UNRELATED TO MEANS AND METHODS, AND REPRESENT ONLY AN EFFORT TO AND PURPOSE OF EVALUATING THE CONTRACTOR'S CONFORMANCE WITH THE CONSTRUCTION CONTRACT DOCUMENTS.
2. CITY OF SEASIDE MAKES NO WARRANTY OR REPRESENTATION OF EXISTING ABOVEGROUND CONDITIONS, AS-BUILT CONDITIONS, OR OTHER ABOVEGROUND ACTUAL CONDITIONS VERIFIABLE BY REASONABLE INDEPENDENT INVESTIGATION. THESE CONDITIONS ARE VERIFIABLE BY THE CONTRACTOR BY THE PERFORMANCE OF ITS OWN INDEPENDENT INVESTIGATION THAT CONTRACTOR MUST PERFORM PRIOR TO BIDDING AND CONTRACTOR MUST NOT RELY ON THE INFORMATION SUPPLIED BY OWNER REGARDING EXISTING CONDITIONS.
3. INFORMATION SUPPLIED REGARDING EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS BASED ON INFORMATION FURNISHED TO CITY OF SEASIDE BY OTHERS (I.E. OWNERS OF SUCH UNDERGROUND FACILITIES LIKE AT&T, COMCAST, MCWD, PG&E, OR OTHERS).
4. CITY OF SEASIDE ASSUMES RESPONSIBILITY FOR ONLY THE GENERAL ACCURACY, COMPLETENESS, OR THOROUGHNESS OF INFORMATION REGARDING UNDERGROUND FACILITIES THAT ARE OWNED BY CITY OF SEASIDE. THIS EXPRESS ASSUMPTION OF RESPONSIBILITY APPLIES ONLY IF CONTRACTOR HAS CONDUCTED THE INDEPENDENT INVESTIGATION REQUIRED OF IT UNDER DOCUMENT 007200 (GENERAL CONDITIONS) AND DISCREPANCIES WERE NOT APPARENT. CONTRACTOR IS SOLELY RESPONSIBLE FOR ANY INTERPRETATION OR CONCLUSION DRAWN FROM THIS INFORMATION.
5. THE CONTRACTOR SHALL TAKE OUT OF SERVICE THE WATER, WASTEWATER, STORMWATER, ELECTRICAL, GAS, AND COMMUNICATIONS TO THE PROPERTIES IN THEIR ENTIRETY, INCLUDING DEMOLITION, REMOVAL, AND PROPER DISPOSAL OF SAID SERVICES, LATERALS, AND NON-ACTIVE MAINS ON-SITE UP TO THE APPROPRIATE LOCATION THAT SERVES OTHERS/OTHER PROPERTIES (I.E. PROPERTY LINES, PUBLIC RIGHT-OF-WAYS, TRANSMISSION MAINS, DISTRIBUTION MAINS, ETC), UNLESS OTHERWISE NOTED FOR PROTECTING-IN-PLACE OR TO BE RELOCATED BY OTHERS (UTILITY OWNERS).
6. THE WORK SHALL INCLUDE DEMOLITION, REMOVAL, AND PROPER DISPOSAL OF UTILITIES AND RELATED FEATURES, INCLUDING BUT NOT LIMITED TO PIPE, VALVES, VALVE VAULTS/BOXES, THRUST BLOCKS, IRRIGATION-RELATED FACILITIES, MANHOLES, LIDS AND COVERS, CLEAN-OUTS, INLETS, CATCH BASINS, CONDUIT, WIRING, JUNCTION BOXES, HAND-HOLES, AND ANY OTHER IMPROVEMENTS RELATED TO PLUMBING, MECHANICAL, COMMUNICATIONS, AND ELECTRICAL SYSTEMS.
7. THE WORK SHALL INCLUDE DISCONNECTING, CAPPING, REMOVING, AND DISPOSING OF WATER, WASTEWATER, STORMWATER, GAS, ELECTRICAL, AND COMMUNICATION UTILITIES IN THEIR ENTIRETY.

GENERAL KEYNOTES

(NOT EXHAUSTIVE. SEE UTILITY DEMOLITION AND DECOMMISSIONING NOTES):

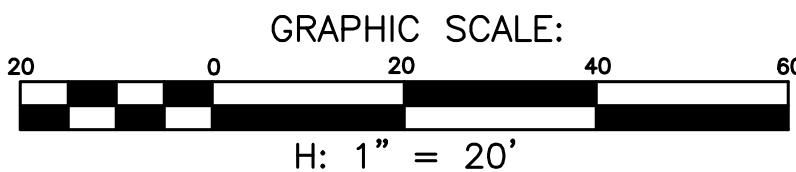
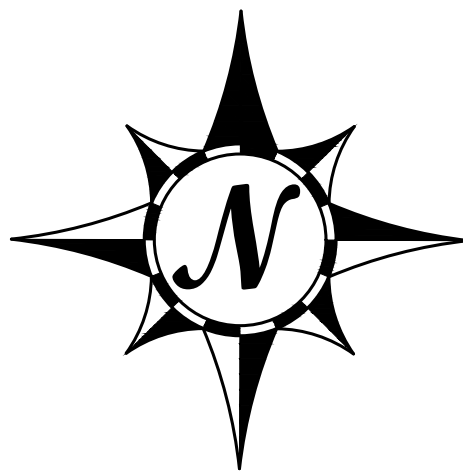
- 01 TERMINATE SERVICE, CAP, DECONSTRUCT, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF EXISTING SEWER LATERALS AND CLEAN OUT.
- 02 TERMINATE SERVICE, CAP, DECONSTRUCT, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF EXISTING ELECTRICAL SERVICES. ELECTRICAL SERVICE REMOVAL INCLUDES EXISTING CONCRETE PAD AT TRANSFORMER LOCATION WEST OF STRUCTURE, AND EXISTING CONDUIT. THE TRANSFORMER SHOWN ON THIS SHEET HAS BEEN PREVIOUSLY REMOVED BY PG&E.
- 03 TERMINATE SERVICE, CAP, DECONSTRUCT, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF EXISTING COMMUNICATION SERVICES TO THE PROPERTY LINE
- 04 TERMINATE SERVICE AT VALVE SHOWN ON SHEET 03, PER DETAIL 2 ON SHEET 09. CAP, DECONSTRUCT, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF EXISTING POTABLE AND NON-POTABLE WATER SERVICES AND HOSE BIBS AFTER ISOLATION AT VALVE. ISOLATION AT VALVE TO BE DONE BY MCWD PRIOR TO DEMOLITION WORK.
- 05 FOR UTILITY INFORMATION BEYOND EXTENTS OF SITE LIMITS, SEE SHEET 03

PROTECT IN PLACE

- 06 EXISTING ELECTRICAL STRUCTURE, CONDUIT, POWER POLE AND GUY WIRES
- 07 EXISTING STORMDRAIN STRUCTURE AND MAIN
- 08 EXISTING SEWER MAINS AND STRUCTURES. SEWER MAINS TO BE RELOCATED BY OTHERS.
- 09 EXISTING WATER MAIN

OTHER NOTES

1. PLEASE SEE SPECIFICATIONS 024100 DEMOLITION, 311000 SITE CLEARING, 312200 GRADING, AND 312316 EXCAVATION FOR REQUIREMENTS RELATED TO THE WORK.



UNDERGROUND SERVICE ALERT

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CITY OF SEASIDE PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825

SHEET TITLE: VISITOR CENTER UTILITY DEMOLITION PLAN

PROJECT NO: N/A

PROJECT TITLE: FORT ORD MILITARY RESERVATION PROPERTY
DECONSTRUCTION AND DEMOLITION PROJECT - PHASE 1A

SHEET: 05 of 11

SHEET STATUS:
☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER

C-3

NO.	BY	DATE	DESCRIPTION

**Harris & Associates**
600 B STREET, SUITE 2000, SAN DIEGO, CA 92101
(619) 236-1778, WEAREHARRIS.COM

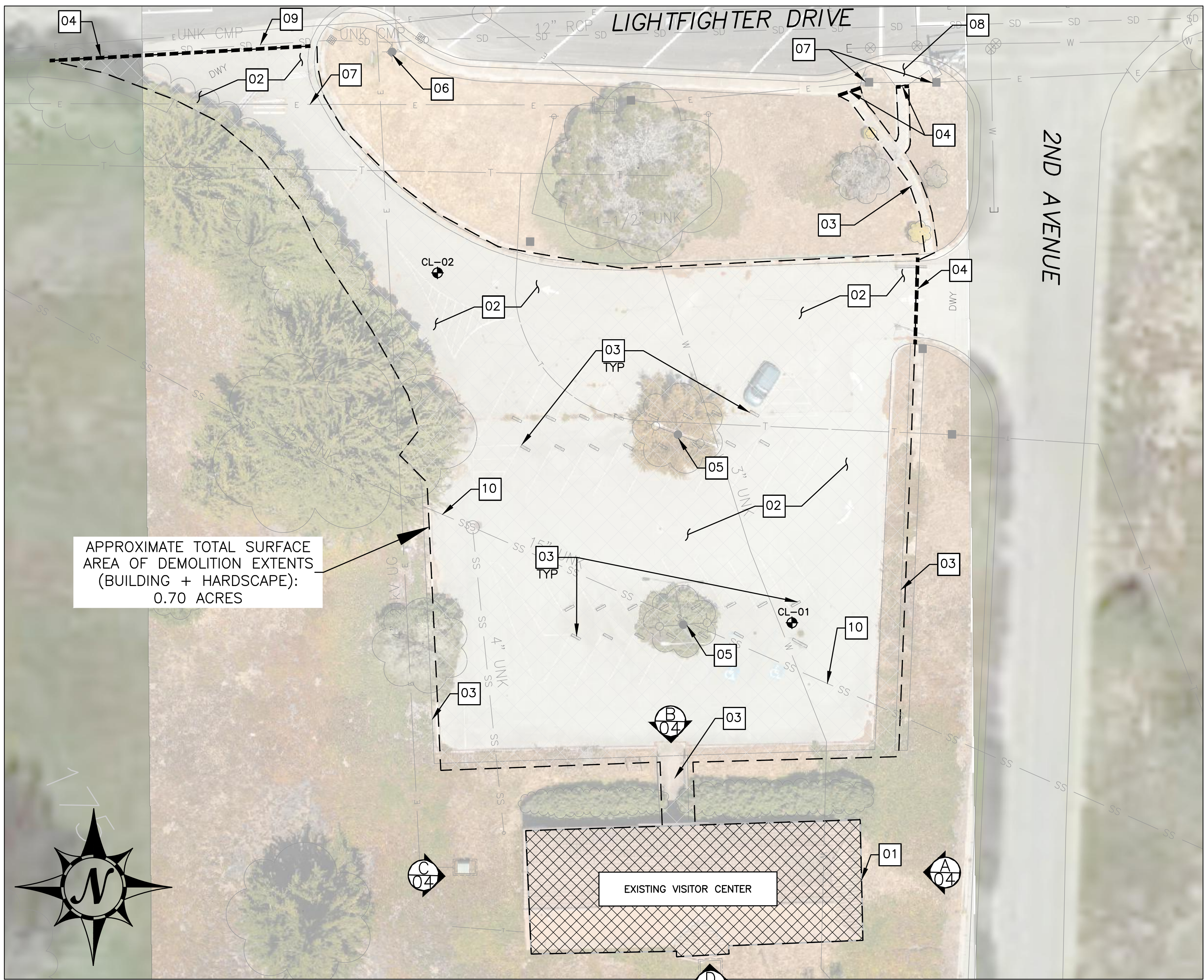
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DESIGNED BY: JBC
DRAWN BY: JLD
CHECKED BY: JK/RD/RB
DATE ISSUED: 5/3/2022
JOB NO. 1800113002

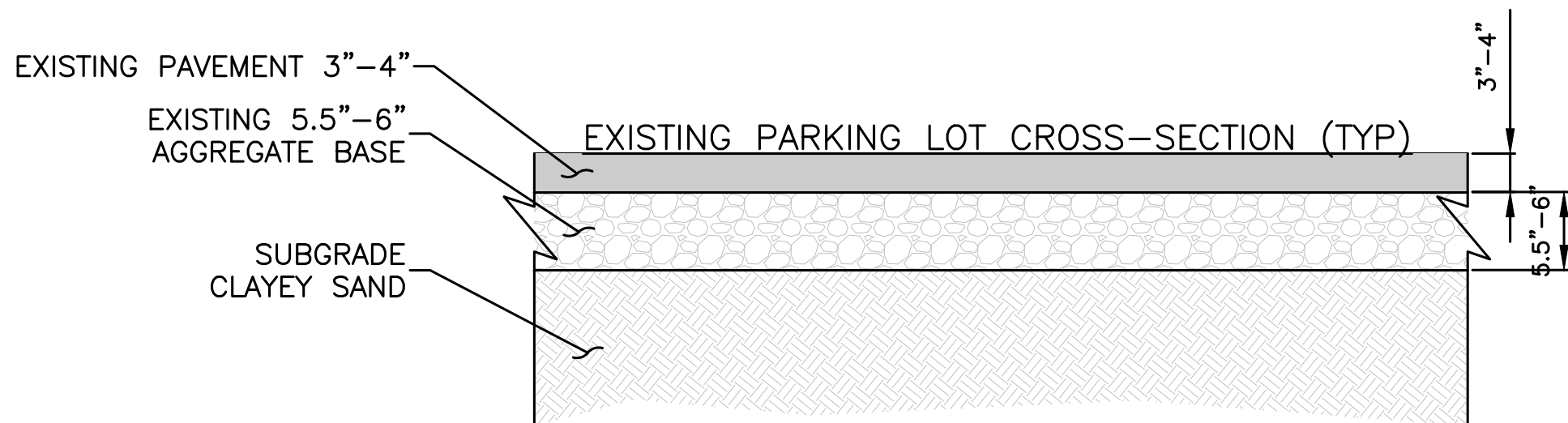


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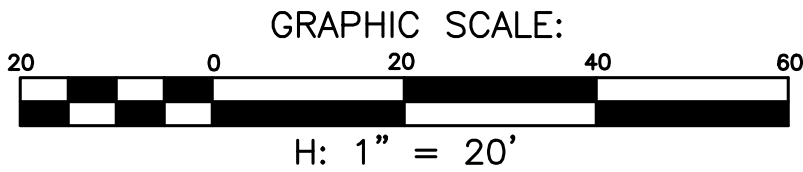
FINAL DESIGN DRAWINGS
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APPROXIMATE TOTAL SURFACE
AREA OF DEMOLITION EXTENTS
(BUILDING + HARDSCAPE):
0.70 ACRES



A EXISTING AC PAVEMENT SECTION
SCALE: NTS





UNDERGROUND SERVICE ALERT
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DECONSTRUCTION AND DEMOLITION NOTES

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2. THE CONTRACTOR SHALL DECONSTRUCT AND DEMOLISH THE PROPERTIES IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED FOR PROTECTING-IN-PLACE.
3. THE WORK SHALL INCLUDE REMOVAL AND DISPOSAL OF STRUCTURES, INCLUDING ROOF SYSTEMS, EXTERIOR WALLS, INTERIOR WALLS, CONCRETE SLABS, CONCRETE FOUNDATIONS, FOUNDATIONS OF OTHER MATERIAL(S), WINDOWS, DOORS, PLUMBING, MECHANICAL, COMMUNICATIONS, AND ELECTRICAL SYSTEMS.
4. AGE OF 3,100 SQUARE-FOOT BUILDING IS UNKNOWN, BUT ESTIMATED TO BE DATED TO 1940'S. BUILDING IS WOODFRAMED WITH WOOD SUBFLOORING. ROOFING MATERIAL CONSISTS OF CLAY WITH A TAR IMPREGNATED FELT UNDERLAYMENT. RENOVATIONS INCLUDED STUCCO FACADE ADDED OVER WOOD SIDING.
5. THE WORK SHALL INCLUDE REMOVAL AND DISPOSAL OF ASPHALT CONCRETE PARKING LOTS, CONCRETE, RETAINING WALLS, STEPS, EXCAVATION AND BACKFILL/FILL, AND ROUGH GRADING FOR MITIGATING SAFETY CONCERNS AND FACILITATING DRAINAGE.

GENERAL KEYNOTES

(NOT EXHAUSTIVE, SEE DECONSTRUCTION AND DEMOLITION NOTES):

- 01** DECONSTRUCT, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF EXISTING VISITORS CENTER BUILDING STRUCTURE AND FOUNDATION (SEE STRUCTURE AND EXISTING CONDITIONS ON SHEET 04 FOR PHOTOGRAPHS)
- 02** DECONSTRUCT, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF EXISTING ASPHALT CONCRETE PAVEMENT PARKING LOT, PAVED SURFACES, AND INGRESS/EGRESS FROM LIGHTFIGHTER DRIVE AND SECOND AVENUE. DECONSTRUCTION OF THE PAVEMENT ALONG SECOND AVENUE WILL STOP AT THE BACKSIDE OF THE EXISTING SIDEWALK SINCE THE STREET SOUTH OF SECOND AVENUE IS PRIVATELY OWNED.
- 03** DECONSTRUCT, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF CONCRETE SIDEWALKS, CONCRETE CURB AND GUTTERS, CONCRETE PARKING BUMPERS, OR OTHER CONCRETE HARDSCAPE FEATURES
- 04** SAWCUT EXISTING ASPHALT CONCRETE OR PCC SIDEWALK ALONG BACK OF EXISTING ROADWAY OR CONCRETE SIDEWALK, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF CURVED SECTIONS OF CONCRETE CURB GUTTER, AND SIDEWALK. CONSTRUCT TYPE "A" ASPHALT CONCRETE BERM/DIKE TO BRIDGE EXISTING CONCRETE CURBS AND GUTTERS TO ENSURE CONSISTENT FLOW LINE ALONG LIGHTFIGHTER DRIVE. SECOND AVENUE WILL BE SAWCUT AT THE BACK OF SIDEWALK.
- 05** DECONSTRUCT, DEMOLISH, REMOVE, AND PROPERLY DISPOSE OF EXISTING PARKING LOT LIGHTS (OVERHEAD), INCLUDING FOUNDATIONS

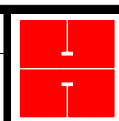
PROTECT IN PLACE

- 06** EXISTING POWER POLE AND GUY WIRES
- 07** EXISTING UNDERGROUND ELECTRICAL
- 08** EXISTING CURB RAMP
- 09** EXISTING STORM DRAIN MAIN
- 10** EXISTING SEWER MAIN

OTHER NOTES

1. PLEASE SEE SPECIFICATIONS 024100 DEMOLITION, 311000 SITE CLEARING, 312200 GRADING, AND 312316 EXCAVATION FOR REQUIREMENTS RELATED TO THE WORK.
2. CONTRACTOR SHALL ACKNOWLEDGE THAT ASPHALT CONCRETE PAVEMENT AND PORTLAND CEMENT PAVEMENT (PCC) INCLUDES ANY AND ALL AGGREGATE BASE MATERIAL(S) AND/OR SUBGRADE MATERIAL(S), INCLUDING GEOTEXTILE FABRIC (IF ANY) FROM PREVIOUS STABILIZATIONS AND REINFORCEMENT STEEL AS PART OF THE DEMOLITION, REMOVAL, AND PROPER DISPOSAL ACTIVITIES.
3. SEE SPECIFICATION 017419 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL FOR DEFINITIONS, SUBMITTALS, PROCEDURES, AND IMPLEMENTATION REQUIREMENTS.

NO.	BY	DATE	DESCRIPTION

**Harris & Associates**
600 B STREET, SUITE 2000, SAN DIEGO, CA 92101
(619) 236-1778, WEAREHARRIS.COM

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DESIGNED BY: JBC
DRAWN BY: JLD
CHECKED BY: JK/RD/RB
DATE ISSUED: 5/3/2022
JOB NO. 1800113002



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**FINAL DESIGN DRAWINGS
ISSUED FOR BID**

**CITY OF SEASIDE PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION**
440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825

SHEET TITLE: **VISITOR CENTER BUILDING & PARKING LOT
DEMOLITION PLAN**

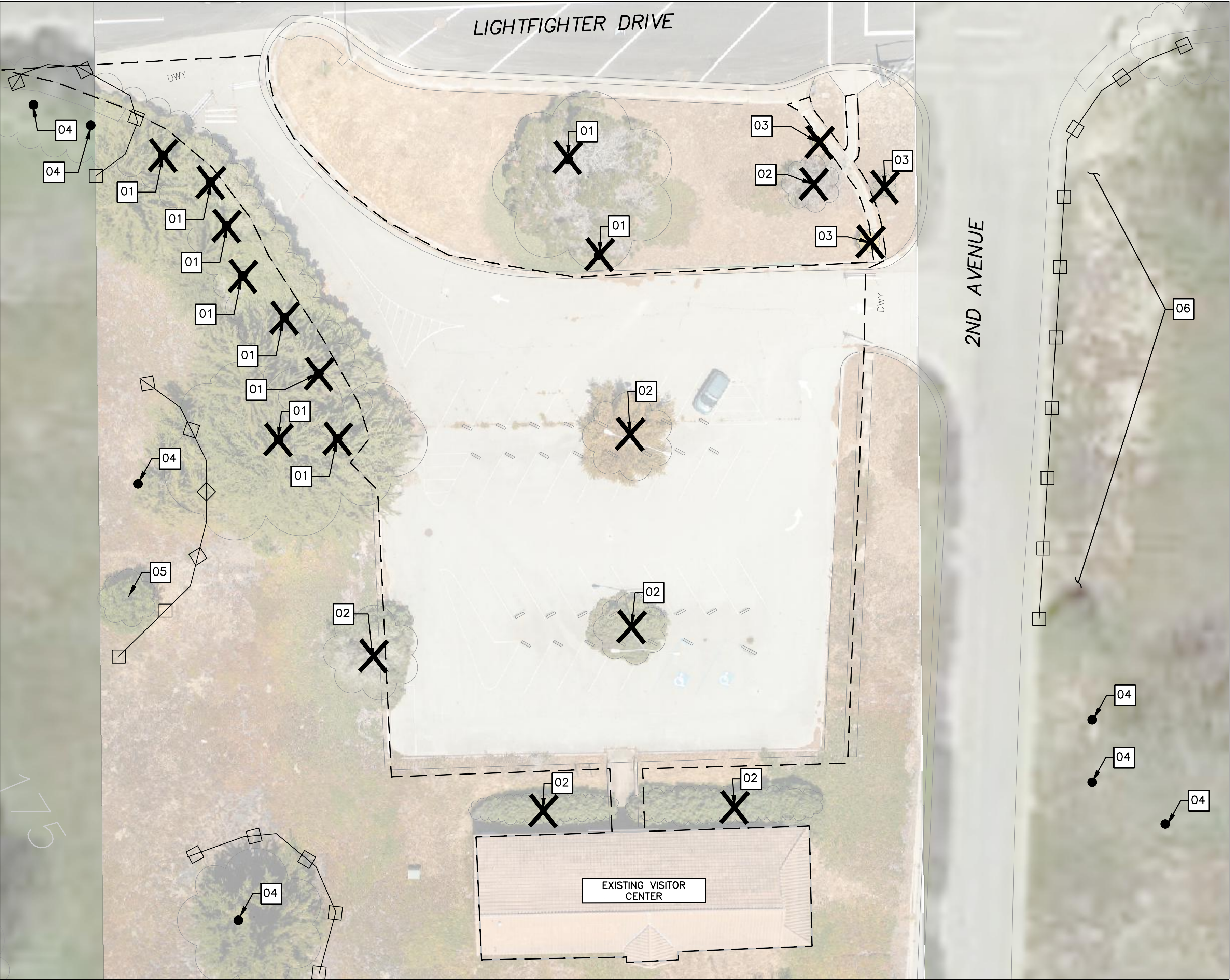
PROJECT TITLE: **FORT ORD MILITARY RESERVATION PROPERTY
DECONSTRUCTION AND DEMOLITION PROJECT – PHASE 1A**

SHEET STATUS:
☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER

PROJECT NO: **N/A**

SHEET: **06 of 11**

C-4



DEFINITIONS, VEGETATION REMOVAL, AND CLARIFICATIONS

- 1. THE DEFINITION OF A TREE IS A WOODY PERENNIAL PLANT HAVING A SINGLE ELONGATE MAIN STEM OR TRUNK AND BEARING BRANCHES AT SOME DISTANCES FROM THE GROUND
- 2. THE DEFINITION OF A SHRUB IS A LOW WOODY PLANT HAVING SEVERAL STEMS OR TRUNKS.
- 3. THE DEFINITION OF A BUSH IS A LOW DENSELY BRANCHED SHRUB.
- 4. THE DEFINITION OF A STUMP IS A PART OF A PLANT (I.E. TREE, SHRUB, OR BUSH), ESPECIALLY A TREE, REMAINING ATTACHED TO THE ROOT OR ROOT SYSTEM AFTER THE TRUNK IS CUT.
- 5. THE CONTRACTOR SHALL REMOVE ALL VEGETATION (DEAD AND ALIVE) FROM THE PROJECT SITE, INCLUDING SELECT TREES, ALL SHRUBS, ALL BUSHES, AND ALL STUMPS.
- 6. REMOVAL OF VEGETATION SHALL BE DONE TO GROUND LEVEL, EXCLUDING ROOT REMOVAL. ROOT REMOVAL WILL BE DONE AS PART OF SOIL EXCAVATION AND/OR REMOVAL.

GENERAL KEYNOTES

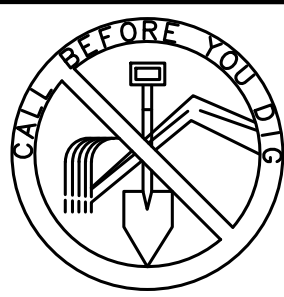
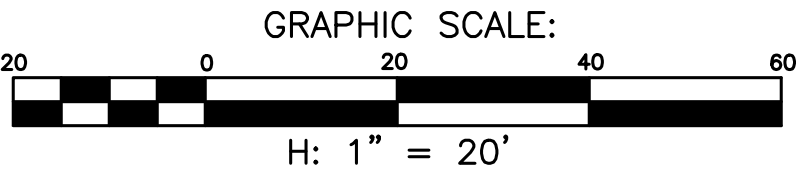
- 01 REMOVE EXISTING TREE
- 02 REMOVE EXISTING SHRUB(S) OR CLUSTER OF MULTIPLE SHRUBS
- 03 REMOVE EXISTING BUSH OR CLUSTER OF MULTIPLE BUSHES

PROTECT:

- 04 EXISTING TREE(S)
- 05 EXISTING SHRUB(S) OR CLUSTER OF MULTIPLE SHRUBS
- 06 EXISTING HILLSIDE CONTAINING PROTECTED FLOWER SPECIES

OTHER NOTES

- 1. PLEASE SEE SPECIFICATIONS 024100 DEMOLITION, 311000 SITE CLEARING, 312200 GRADING, AND 312316 EXCAVATION FOR REQUIREMENTS RELATED TO THE WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY UTILITIES AND FACILITIES SUCH AS ELECTRICAL POWER, WATER, LIGHTING, AND TEMPORARY SANITARY FACILITIES.
- 3. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF SEASIDE REGARDING VEHICULAR ACCESS, PARKING, AND WASTE REMOVAL.



UNDERGROUND SERVICE ALERT
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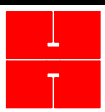
SHEET TITLE: VISITOR CENTER TREE REMOVAL PLAN PROJECT NO: N/A

PROJECT TITLE: FORT ORD MILITARY RESERVATION PROPERTY DECONSTRUCTION AND DEMOLITION PROJECT – PHASE 1A SHEET: 07 of 11

SHEET STATUS:
☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER

C-5

NO.	BY	DATE	DESCRIPTION

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(619) 236-1778, WEAREHARRIS.COM

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DRAWN BY: JLD
CHECKED BY: JK/RD/RB
DATE ISSUED: 5/3/2022
JOB NO. 1800113002



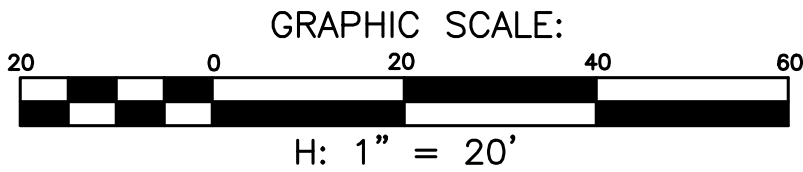
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FINAL DESIGN DRAWINGS
ISSUED FOR BID



GRADING NOTES

1. EXISTING CONTOURS AND ELEVATIONS SHOWN FOR REFERENCE ONLY AND WERE BASED ON GIS INFORMATION PROVIDED BY THE CITY OF SEASIDE AND AERIAL PHOTOGRAPHY, REFERENCES TO NAD83 WITH A ± 2 FOOT LEVEL OF ACCURACY.
2. FINISHED GRADE IS APPROXIMATE. CONTRACTOR TO GRADE WHERE EXCAVATIONS OCCUR, ADD IMPORTED FILL WHEN REQUIRED TO, MATCH EXISTING GRADE, AND MEET INTENTS OF PROPOSED CONTOUR.
3. BACKFILL AND COMPACTION SHALL BE PLACED IN 12-INCH LIFTS AND COMPACTED TO 90% OF MAXIMUM RELATIVE DENSITY AS EVALUATED BY ASTM D1557. BACKFILL SHALL BE LEVEL WITH GROUND SURFACE. COMPACTION TESTING SHALL BE PERFORMED PER SPECIFICATIONS.



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CITY OF SEASIDE PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825

SHEET TITLE: VISITOR CENTER POST-DEMOLITION
& GRADING PLAN

PROJECT NO: N/A

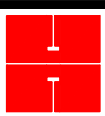
PROJECT TITLE: FORT ORD MILITARY RESERVATION PROPERTY
DECONSTRUCTION AND DEMOLITION PROJECT - PHASE 1A

SHEET: 08 of 11

SHEET STATUS:
☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER

C-6

NO.	BY	DATE	DESCRIPTION

**Harris & Associates**
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(619) 236-1778, WEAREHARRIS.COM

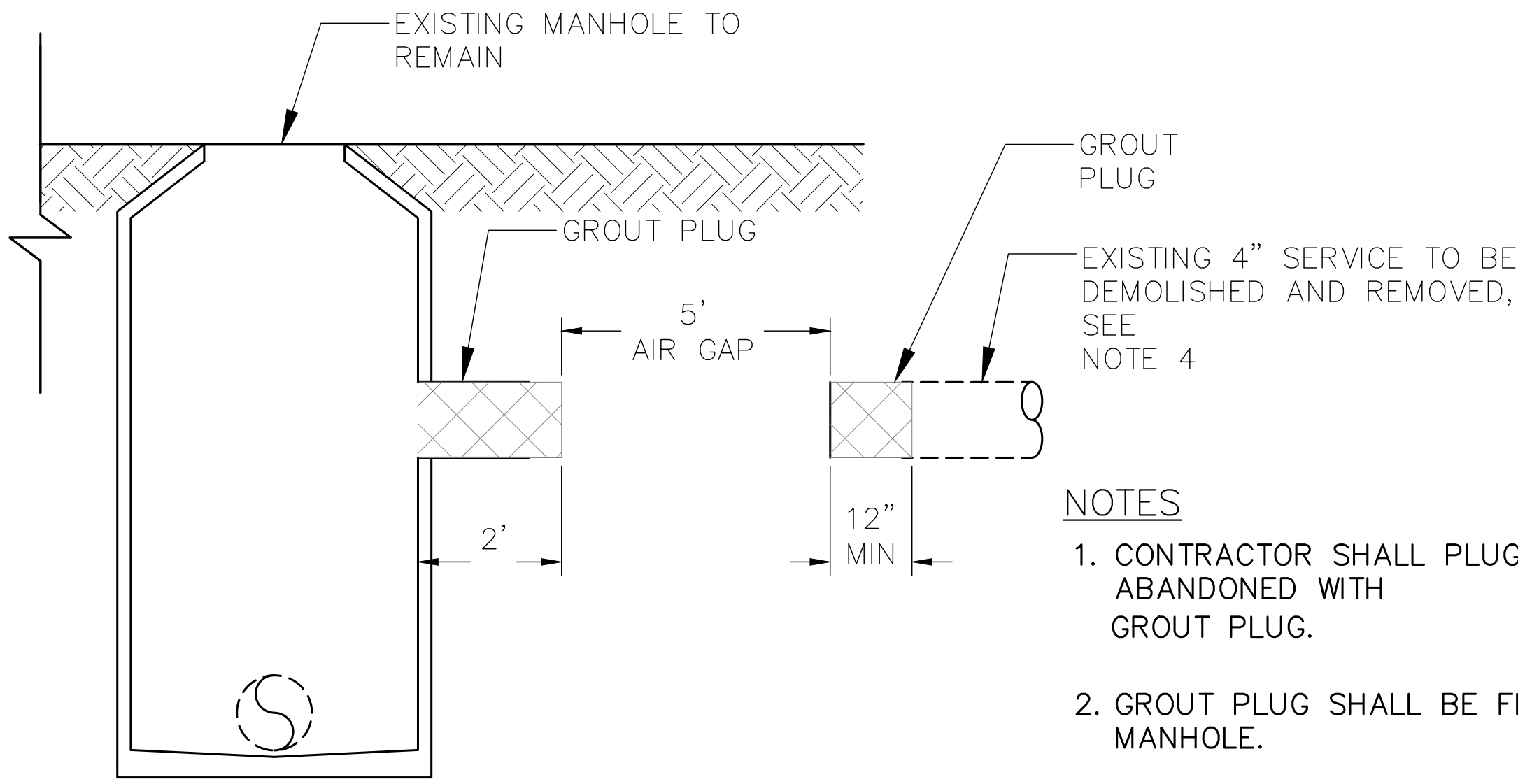
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DESIGNED BY: JBC
DRAWN BY: JLD
CHECKED BY: JK/RD/RB
DATE ISSUED: 5/3/2022
JOB NO. 1800113002



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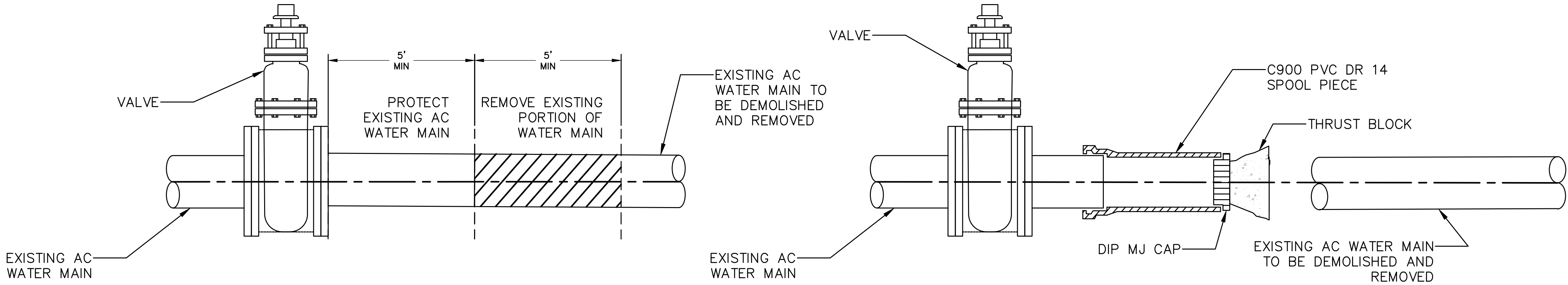
**FINAL DESIGN DRAWINGS
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MANHOLE CONNECTED
TO ACTIVE MAIN

- NOTES
1. CONTRACTOR SHALL PLUG LATERALS TO BE ABANDONED WITH GROUT PLUG.
 2. GROUT PLUG SHALL BE FLUSH WITH THE INSIDE OF THE MANHOLE.
 3. CONTRACTOR TO BE RESPONSIBLE FOR TRAFFIC CONTROL.
 4. ABANDONED SEWERS LARGER THAN 8" IN DIAMETER SHALL BE FILLED WITH FLOWABLE FILL. SEWERS 8" AND SMALLER SHALL BE GROUT PLUGGED AND LEFT EMPTY. SEE SPECIFICATION 33 04 00.

1 SEWER MANHOLE CUT AND PLUG (VISITOR CENTER)
- NOT TO SCALE



BEFORE INSTALLATION

AFTER INSTALLATION

- NOTES
1. CONTRACTOR SHALL NOT OPERATE DISTRICT VALVES; MCWD SHALL ISOLATE MAINS
 2. THRUST BLOCK PER MCWD STD. PLAN W-13
 3. THRUST BLOCK BEARING AREA BASED ON ALLOWABLE SOIL BEARING VALUE OF 1500 PSF PRESSURE AND 225 PSI LINE PRESSURE WITH 3'-0" MINIMUM
FOR BEARING = 1000 PSF, 1.5 X AREA SHOWN
FOR BEARING = 500 PSF, 3.0 X AREA SHOWN
 4. THRUST BLOCK TO BE 2,000 PSI CONCRETE AND PLACED AGAINST UNDISTURBED SOIL
 5. THRUST BLOCK BEARING SURFACE SIZE TO BE SIZED BASED ON PIPE DIAMETER FROM TABLE 5-1. WATER MAIN AT VISITOR CENTER IS ASSUMED TO BE 3" DIAMETER, BUT THRUST BLOCK SIZE TO BE ADJUSTED IF PIPE DIAMETER IS FOUND TO BE OTHERWISE.
 6. CONCRETE SHALL NOT EXTEND ONTO FLANGE OR ADJOINING PIPE

TABLE 5-1:
MINIMUM SIZE OF THRUST
BLOCK BEARING SURFACE

PIPE SIZE	HORIZ.	VERT.
4"	1'-6"	1'-6"
6"	2'-6"	1'-9"
8"	3'-9"	2'-0"
10"	4'-6"	2'-6"
12"	5'-3"	3'-0"

2 DISCONNECTION OF WATER MAIN FROM EXISTING VALVE (SOUTH OF VISITOR CENTER)
- NOT TO SCALE



UNDERGROUND SERVICE ALERT
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CITY OF SEASIDE PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825

SHEET TITLE: MISCELLANEOUS DETAILS

PROJECT NO: N/A

PROJECT TITLE: FORT ORD MILITARY RESERVATION PROPERTY
DECONSTRUCTION AND DEMOLITION PROJECT - PHASE 1A

SHEET: 09 of 11

SHEET STATUS:
☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER

C-7

NO.	BY	DATE	DESCRIPTION

Harris & Associates
600 B STREET, SUITE 2000, SAN DIEGO, CA 92101
(619) 236-1778, WEAREHARRIS.COM

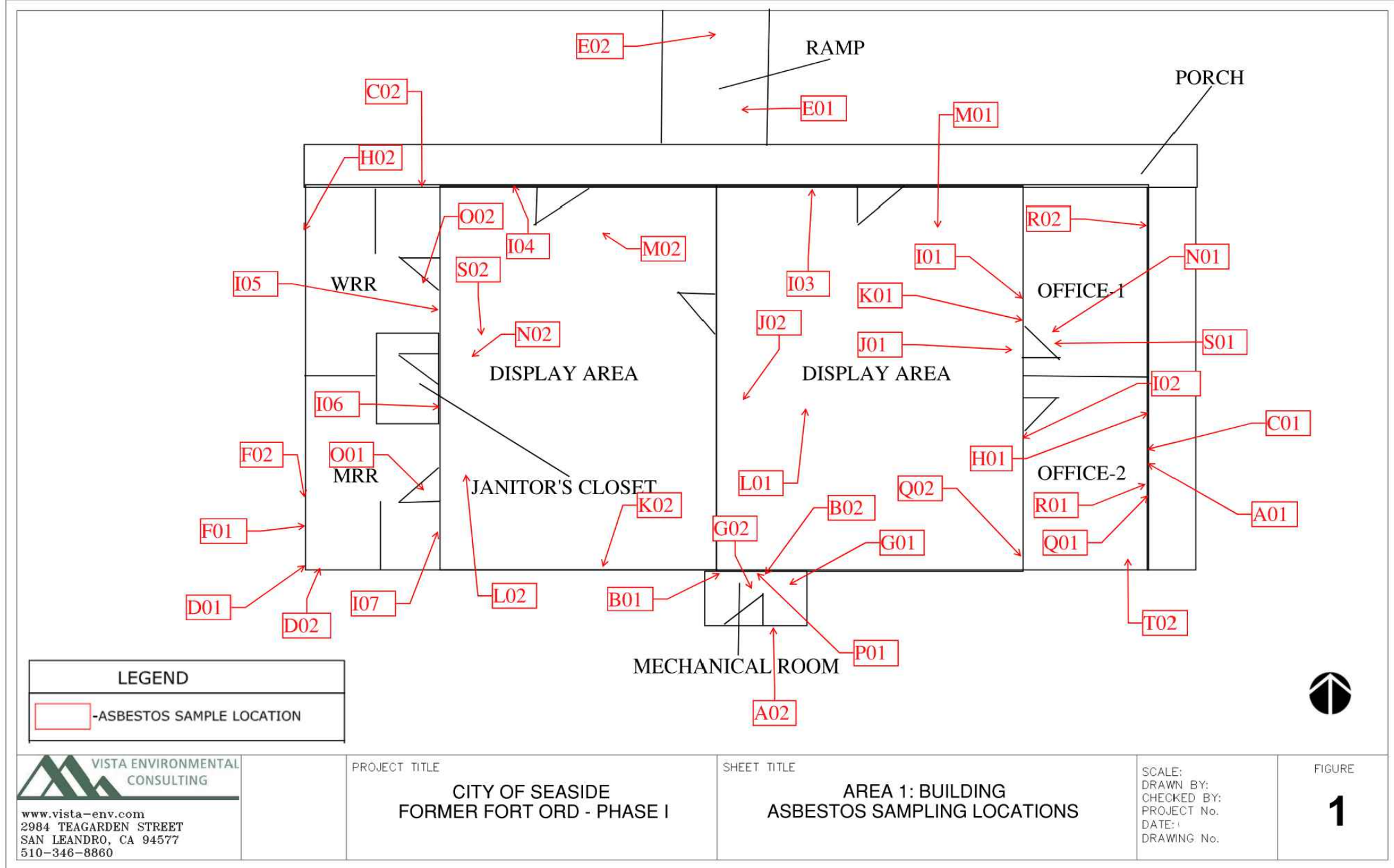
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JOB NO. 1800113002

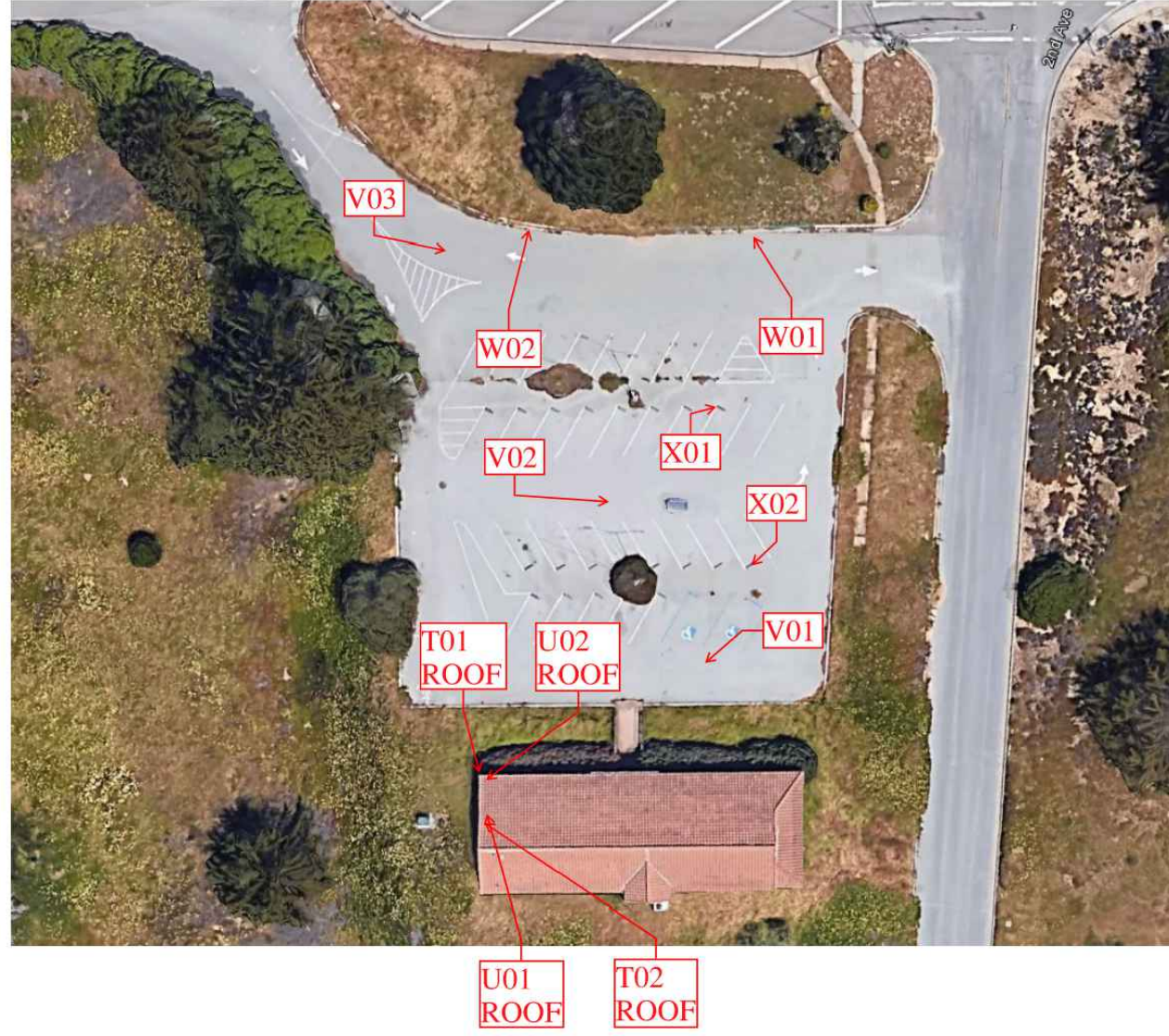


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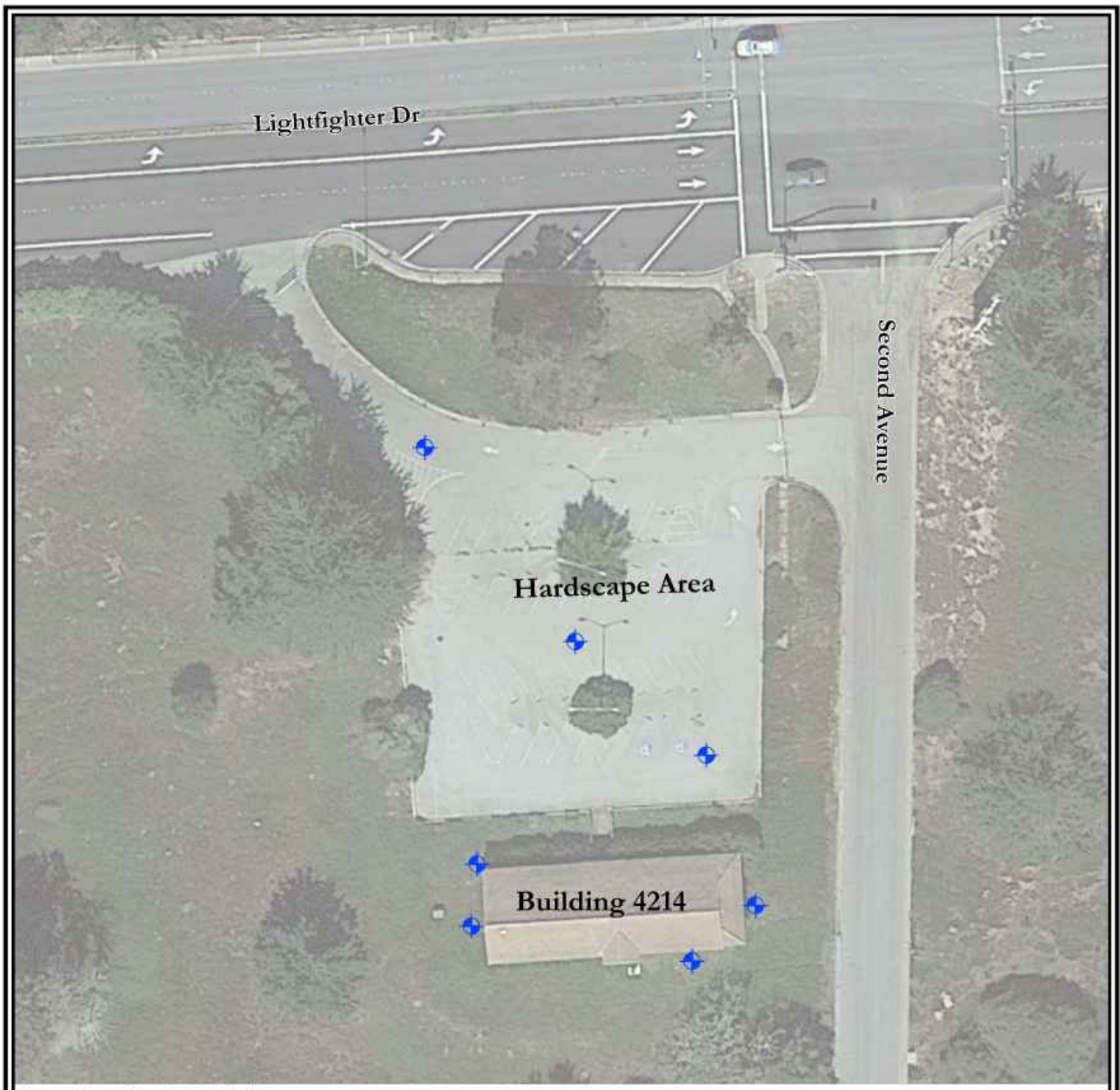
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1 VISITOR CENTER STRUCTURE ASBESTOS SAMPLING LOCATIONS
NOT TO SCALE



2 VISITOR CENTER HARDSCAPE AND ROOF ASBESTOS SAMPLING LOCATIONS
NOT TO SCALE



LEGEND
Vista Soil Boring Location

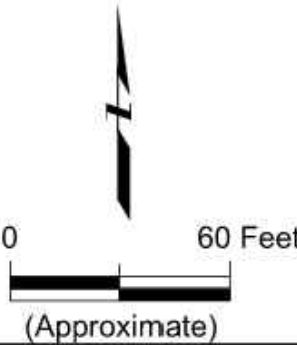
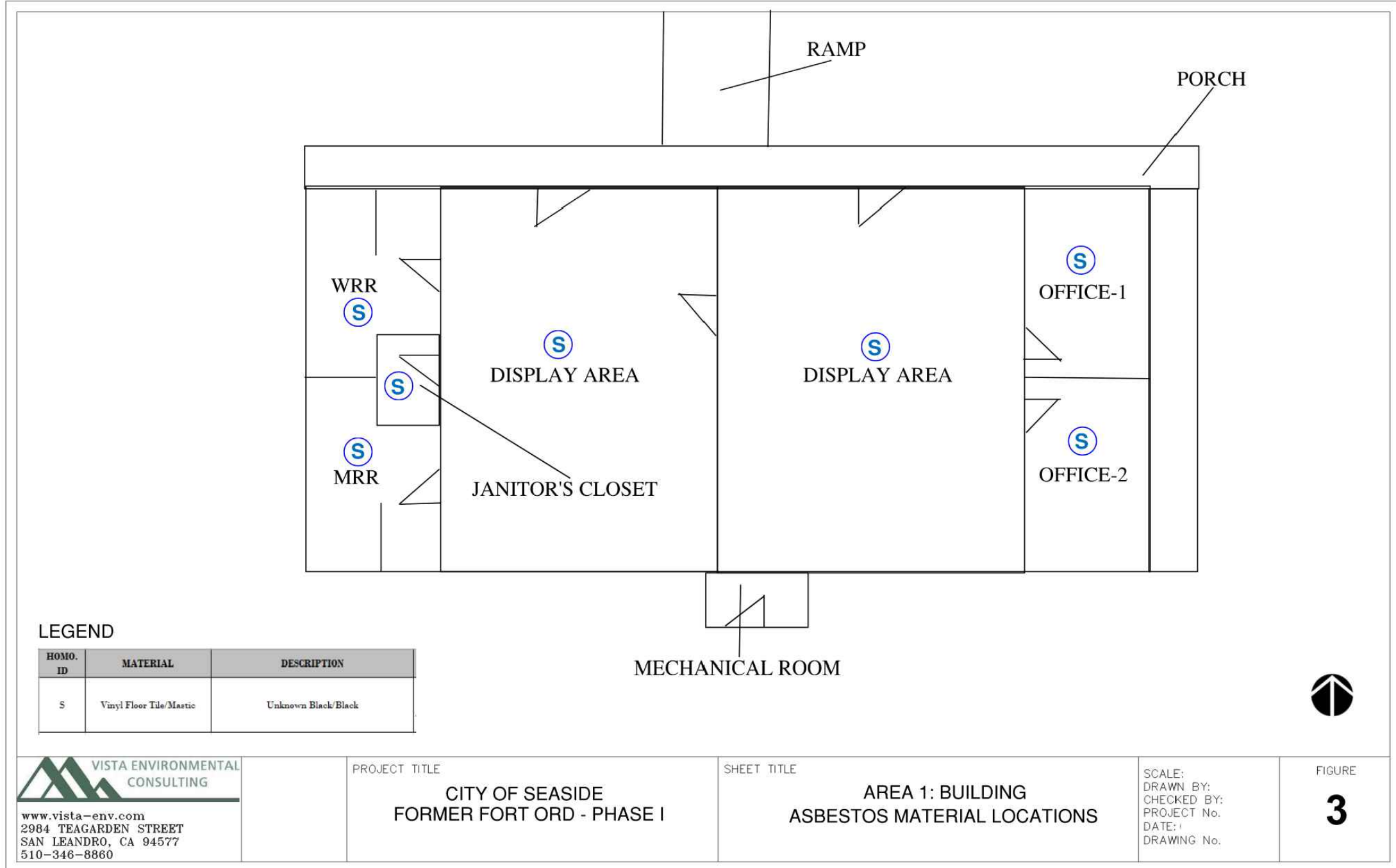


Figure 2
Phase 1A
Soil Sampling Locations
City of Seaside
Former Fort Ord - Phase 1

4 VISITOR CENTER SOIL SAMPLING LOCATIONS
NOT TO SCALE



3 VISITOR CENTER STRUCTURE ASBESTOS MATERIAL LOCATIONS
NOT TO SCALE

HAZARDOUS MATERIALS NOTES:

- SEE THE 'HAZARDOUS MATERIALS SURVEY REPORT' BY VISTA ENVIRONMENTAL CONSULTING DATED JANUARY 14, 2022 FOR THE CONTRACTOR'S RESPONSIBILITIES RELATED TO SAID WORK. THE REPORT SHALL BE READ AND UNDERSTOOD IN ITS ENTIRETY AND ALL WORK SHALL BE PERFORMED IN STRICT ADHERENCE TO THE REPORT.
- THE CONTRACTOR (OR RETAINED SUBCONTRACTOR) MUST BE A CAL/OSHA REGISTERED AND CALIFORNIA STATE LICENSED (C-22) ASBESTOS ABATEMENT CONTRACTOR.
- THE VISITOR CENTER HAS ASBESTOS, LEAD-BASED PAINT AND/OR MATERIALS, LEAD-CONTAINING PAINT, UNIVERSAL WASTE, SUSPECT POLYCHLORINATED BIPHENYLS (PCB), AND OTHER HAZARDOUS MATERIALS.
- THE VISITOR CENTER HAS ASBESTOS CEMENT PIPE (ACP) ON-SITE, BELOW-GRADE WITHIN THE FOOTPRINT OF THE WORK.

SOIL SAMPLING AND SOIL REMEDIATION NOTES:

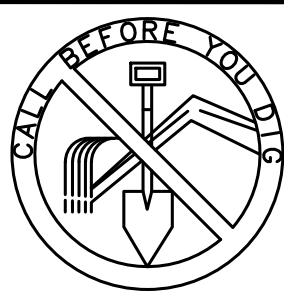
- SEE THE "SOIL SAMPLING REPORT AND SOIL REMEDIATION WORK PLAN" BY VISTA ENVIRONMENTAL CONSULTING DATED MARCH 4, 2022 FOR THE CONTRACTOR'S RESPONSIBILITIES RELATED TO SAID WORK. THE REPORT SHALL BE READ AND UNDERSTOOD IN ITS ENTIRETY AND ALL WORK SHALL BE PERFORMED IN STRICT ADHERENCE TO THE REPORT.
- THE SOIL WITHIN THE VISITOR CENTER PROPERTY HAS ARSENIC, HEXAVALENT CHROME, COBALT, AND LEAD, WHICH MUST BE PROPERLY EXCAVATED, ISOLATED, STOCKPILED, CHARACTERIZED (WASTE), AND REMOVED AND DISPOSED OF AT AN APPROPRIATE FACILITY.
- NO MIXING OF EXCAVATED MATERIALS AND SOILS BENEATH THE VISITOR CENTER STRUCTURE AND HARDSCAPE SURFACES, RESPECTIVELY, WILL BE ALLOWED.
- FOLLOWING SOIL SAMPLING, OVER-EXCAVATION(S), AND WASTE CHARACTERIZATION(S), ANY AND ALL MATERIAL AS DEFINED SHALL BE LOADED, TRANSPORTED, AND PROPERLY DISPOSED OF AT THE APPROVED, SELECT SOIL DISPOSAL FACILITY.

OVER-EXCAVATION NOTES:

- THE VISITOR CENTER HARDSCAPE SURFACES, WHICH ARE PREDOMINANTLY ASPHALT CONCRETE PAVEMENT MATERIAL OF PARKING LOT(S) AND ROADWAYS, SHALL BE OVER-EXCAVATED TO A DEPTH OF TWO (2) FEET BELOW GROUND SURFACE. EXISTING CONCRETE CURB, GUTTER, AND SIDEWALK NOT IDENTIFIED FOR DEMOLITION ACTIVITIES SHALL REMAIN UNDISTURBED AND IS NOT INCLUDE IN OVER-EXCAVATION REQUIREMENTS.
- THE VISITOR CENTER STRUCTURE, INCLUDING TWO (2) FEET BEYOND THE STRUCTURE'S 'DRIP-LINE' SHALL BE OVER-EXCAVATED TO A DEPTH OF TWO (2) FEET BELOW GROUND SURFACE. EXISTING CONCRETE CURB, GUTTER, AND SIDEWALK NOT IDENTIFIED FOR DEMOLITION ACTIVITIES SHALL REMAIN UNDISTURBED AND IS NOT INCLUDE IN OVER-EXCAVATION REQUIREMENTS.
- UPON OVER-EXCAVATION ACTIVITIES, A CONFIRMATORY SOIL SAMPLING PROGRAM WILL BE IMPLEMENTED BY THE CITY OF SEASIDE OR OWNER'S REPRESENTATIVE WITH AN EXPECTED DOWNTIME OR STAND-BY TIME OF FIVE (5) CONSECUTIVE BUSINESS DAYS. IF ADDITIONAL OVER-EXCAVATION IS NECESSARY BASED UPON UNFAVORABLE SOIL SAMPLING TEST RESULTS (I.E. EXCEEDING ESL'S AND RSL'S), ADDITIONAL ONE (1)- FOOT SECTIONS BELOW GROUND SURFACE WILL BE EXCAVATED, REMOVED, AND SPOILED NEARBY. THIS PROCESS WILL CONTINUE UNTIL SOIL SAMPLING TEST RESULTS ARE BELOW RESIDENTIAL ESL'S AND RSL'S.

WASTE CHARACTERIZATION NOTES:

- THE CITY OF SEASIDE OR OWNER'S REPRESENTATIVE WILL SAMPLE AND ANALYZE THE OVER-EXCAVATED MATERIAL(S)/SPOILS/STOCKPILES CONSISTENT WITH THE APPROVED, SELECT SOIL DISPOSAL FACILITY'S SPECIFIC ANALYTE LIST AND SUBMIT SAID RESULTS TO THE CONTRACTOR. THE CONTRACTOR SHALL THEN SUBMIT A WASTE PROFILE APPLICATION AND OBTAIN WASTE MANIFEST(S).



UNDERGROUND SERVICE ALERT

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CITY OF SEASIDE PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825

SHEET TITLE: VISITOR CENTER ABATEMENT AND REMEDIATION

PROJECT NO: N/A

PROJECT TITLE: FORT ORD MILITARY RESERVATION PROPERTY DECONSTRUCTION AND DEMOLITION PROJECT - PHASE 1A

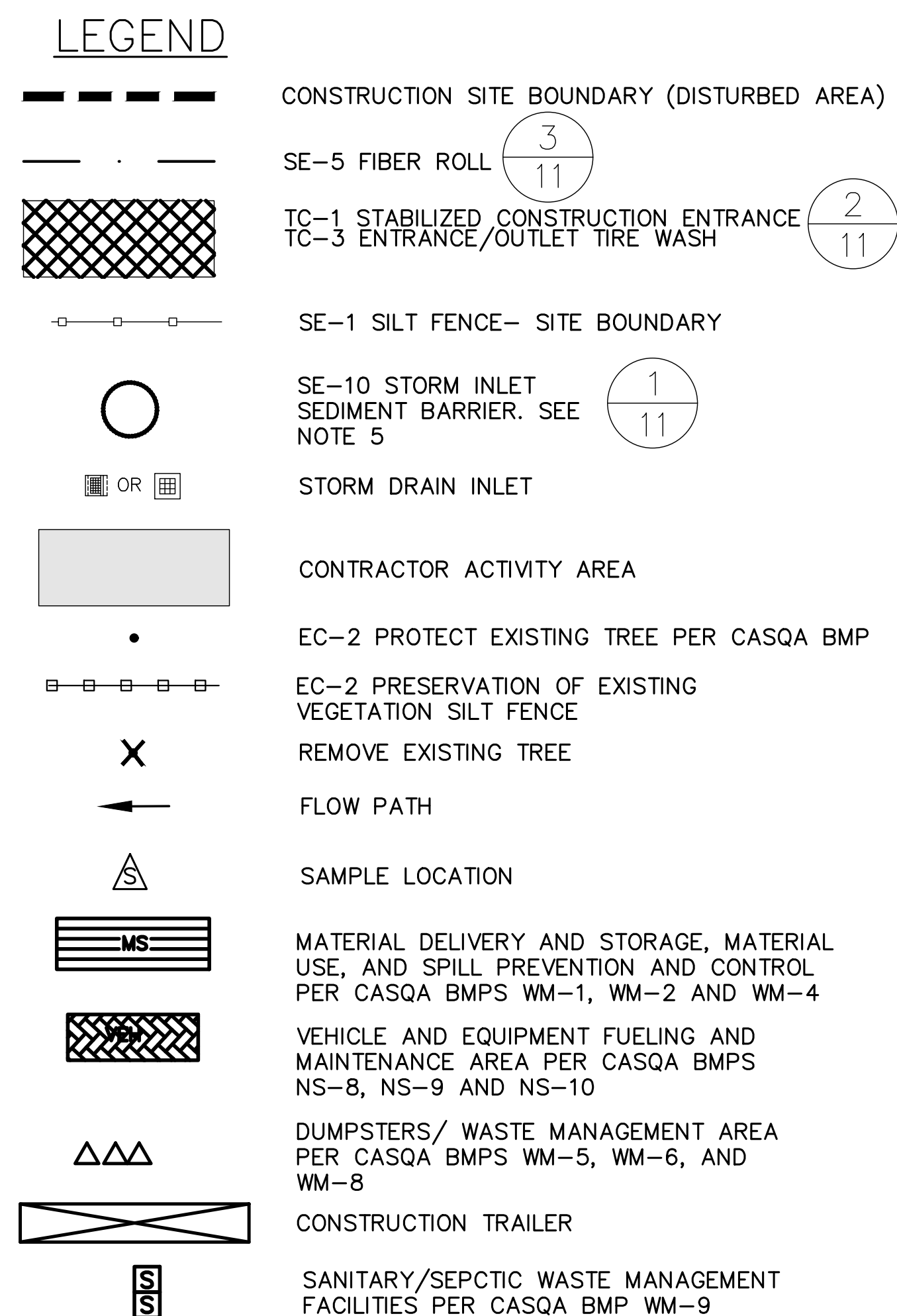
SHEET: 10 of 11

SHEET STATUS: ☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER

H-1

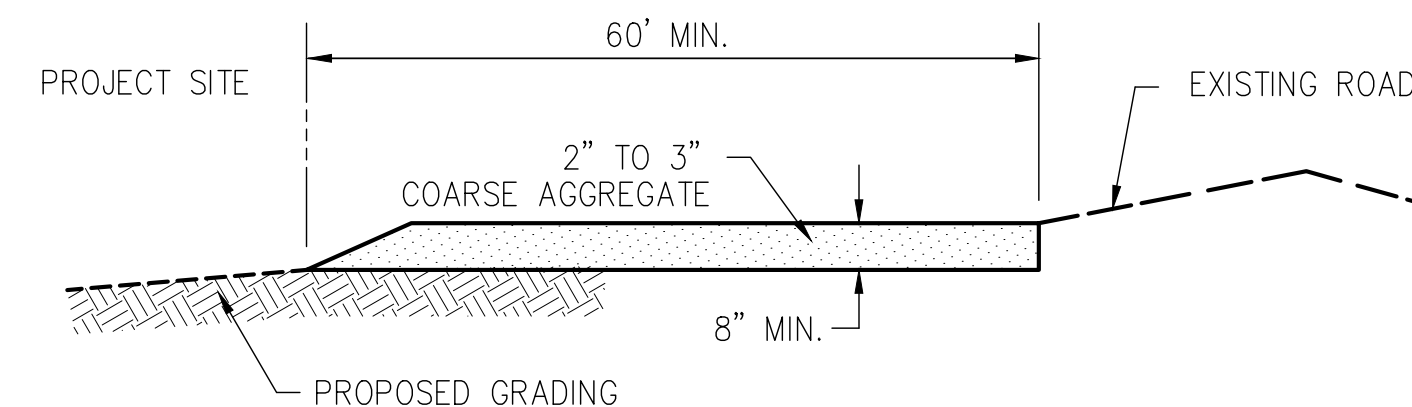
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NO.	BY	DATE	DESCRIPTION

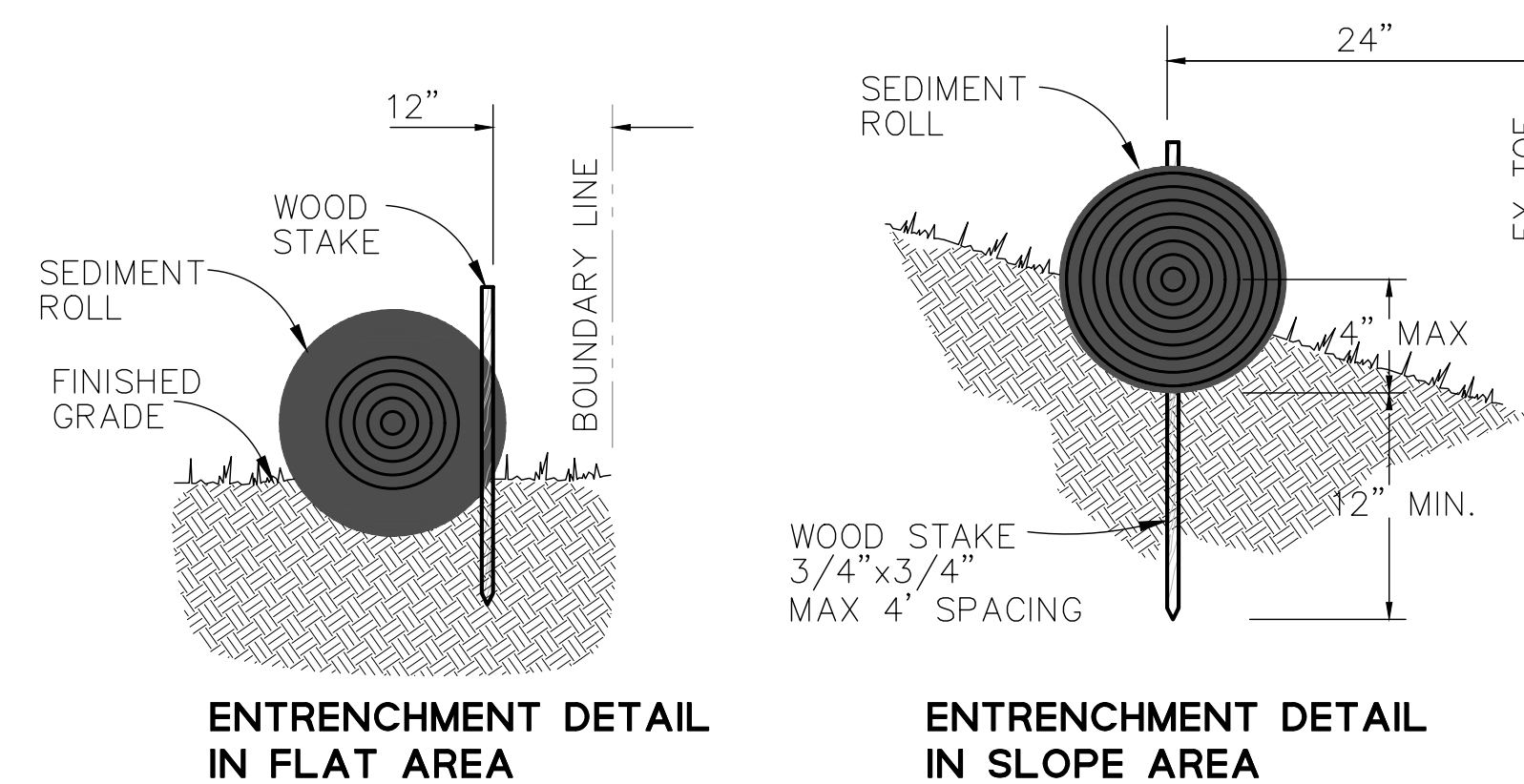


1. STABILIZED CONSTRUCTION ENTRANCE IS SHOWN FOR REFERENCE ONLY.
2. UTILITY DISCONNECTION WILL OCCUR PRIOR TO THE DEMOLITION/DECONSTRUCTION OF THE BUILDINGS AND PAVEMENT.
3. CONTRACTOR TO MAINTAIN/REVISE EROSION CONTROL MEASURES AS NEEDED TO PROTECT AND PREVENT SEDIMENT FROM LEAVING THE SITE DURING VARIOUS STAGES/PHASES OF REMOVAL NOT SHOWN ON THE EROSION CONTROL PLAN. CONTRACTOR TO COMPLY WITH SWPPP AT ALL TIMES.
4. CONTRACTOR SHALL SWEEP THE PUBLIC ROAD IN THE VICINITY OF THE ENTRANCE AS OFTEN AS NECESSARY THROUGHOUT THE WORK DAY TO COMPLETE REMOVE ALL DEBRIS ASSOCIATED WITH PROJECT ACTIVITIES.
5. CONTRACTOR TO ADD SEDIMENT BARRIER TO ALL PERIMETER STORM DRAIN INLETS THAT ACCEPT RUNOFF FROM SITE.
6. EXISTING CONTOURS AND ELEVATIONS SHOWN FOR REFERENCE ONLY AND WERE BASED ON GIS INFORMATION PROVIDED BY FORA AND AERIAL PHOTOGRAPHY, REFERENCED TO NAVD88 WITH A ± 2 -FT LEVEL OF ACCURACY.
7. ALL TREES REMAINING ON SITE SHALL BE PROTECTED PER CASQA BMP EC-2.
8. CASQA BMP WE-1 WILL BE IMPLEMENTED THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES IN ORDER TO ALLEVIATE DUST NUISANCE.
9. TEMPORARY SOIL DISTURBANCE WILL OCCUR WITHIN THE SITE LIMITS.
10. CRUSHED AGGREGATE/ROCK WILL BE REQUIRED ON ALL DISTURBED AREAS DURING THE FINAL STABILIZATION PHASE AS APPROPRIATE TO COMPLY WITH THE STATE OF CALIFORNIA'S CONSTRUCTION GENERAL PERMIT.
11. QSP TO DETERMINE IF ANY ADDITIONAL PERMANENT BMPS TO BE ADDED TO SITE AFTER CONSTRUCTION HAS BEEN COMPLETED.

SE7	STREET SWEEPING AND VACUUMING
WE1	WIND EROSION CONTROL
NS2	DEWATERING
NS8	VEHICLE AND EQUIPMENT CLEANING
NS9	VEHICLE AND EQUIPMENT FUELING
NS10	VEHICLE AND EQUIPMENT MAINTENANCE
WM1	MATERIAL DELIVERY AND STORAGE
WM2	MATERIAL USE
WM3	STOCKPILE MANAGEMENT
WM4	SPILL PREVENTION AND CONTROL
WM5	SOLID WASTE MANAGEMENT
WM6	HAZARDOUS WASTE MANAGEMENT
WM8	CONCRETE WASTE MANAGEMENT
WM9	SANITARY/SEPTIC WASTE MANAGEMENT



1. THE LOCATIONS SHOWN ARE FOR INFORMATION ONLY. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING STABILIZED CONSTRUCTION ENTRANCES AS CONSTRUCTION PHASES DICTATE. AS AN OPTION, CONTRACTOR MAY USE WHEEL WASHERS. IF WHEEL WASHING IS USED, ALL WATER MUST BE EITHER RECYCLED, INFILTRATED OR OTHERWISE USED ON-SITE. ALL CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED FOR REDUCING THE AMOUNT OF MUD THAT IS TRACKED FROM THE SITE TO THE STORM DRAIN SYSTEM. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USE TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE THROUGH USE OF INLET PROTECTION (E.G. SAND BAGS OR OTHER APPROVED METHODS).
3. THE MATERIAL FOR CONSTRUCTION OF THE PAD SHALL BE 2" TO 3" COARSE AGGREGATE.
4. THE THICKNESS OF THE PAD SHALL NOT BE LESS THAN 8".
5. THE WIDTH OF THE PAD SHALL NOT BE LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS (12' MIN).
6. THE LENGTH OF THE PAD SHALL BE AS REQUIRED, BUT NOT LESS THAN 60'.



1. FIBER ROLLS ARE TUBES MADE FROM POROUS BIODEGRADABLE FIBER STUFFED IN A PHOTO-DEGRADABLE OPEN WEAVE NETTING. THEY ARE APPROX. 8" DIAMETER.
2. FIBER ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 2"-4" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL. ROLLS SHOULD BE ABUTTED SECURELY TO PROVIDE A TIGHT JOINT, NOT OVERLAPPED.
3. FIBER ROLL BARRIER - FIBER ROLL BARRIERS SHALL BE PROVIDED AS REQUIRED BY THE CONSTRUCTION GENERAL PERMIT. AT A MINIMUM, FIBER ROLLS SHALL BE PROVIDED (1) ON DISTURBED SLOPES AND (2) PERPENDICULAR TO ALL CONCENTRATED FLOW PATHS. ON EMBANKMENTS, FIBER ROLL BARRIERS SHALL BE PLACED ON CONTOUR WITH AN ELEVATION DEVIATION OF NO MORE THAN 2 INCHES EXCEPT AT END TERMINATION POINTS. END TERMINATIONS SHALL BE AT LEAST 6-INCHES HIGHER IN ELEVATION THAN THE REMAINING FIBER ROLL WHERE FEASIBLE. FIBER ROLLS SHALL BE CONNECTED BY WRAPPING ENDS WITH MINIMUM 18-INCH OVERLAP.



SECTION 4216 & 4217 OF THE GOVERNMENT CODE REQUIRES A
DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A
"PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT
I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL FREE ☎
1-800-422-4133 TWO (2) WORKING DAYS BEFORE YOU DIG.
WEB ADDRESS: WWW.DIGALERT.ORG

440 HARCOURT AVE. SEASIDE, CA 93955 (831) 899-6825

SHEET TITLE: STAGING & EROSION CONTROL PLAN

PROJECT NO:
N/A

PROJECT TITLE:
FORT ORD MILITARY RESERVATION PROPERTY
DECONSTRUCTION AND DEMOLITION PROJECT – PHASE 1A

SHEET:
11 OF 11

SHEET STATUS:

☐ PRELIMINARY ☒ FINAL ☐ SEMI-FINAL ☐ OTHER

C-8

[illegible]

 **Harris & Associates**
600 B STREET, SUITE 2000, SAN DIEGO, CA 92101
(619) 236-1778, WEAREHARRIS.COM

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DRAWN BY:	JLD
CHECKED BY:	JK/RD/RB
DATE ISSUED:	5/3/2022
JOB NO.	1800113002



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THE GRAPHIC SCALES SHOWN.

FINAL DESIGN DRAWINGS ISSUED FOR BID

DOCUMENT 00 0101

PROJECT MANUAL

for

FORT ORD MILITARY RESERVATION PROPERTY
DECONSTRUCTION AND DEMOLITION PROJECT
PHASE 1A

Seaside, CA

CITY OF SEASIDE
DEPARTMENT OF PUBLIC WORKS



City of Seaside
440 Harcourt Avenue
Seaside, CA 93955

A handwritten signature in blue ink, appearing to read 'Nisha Patel', is written over a horizontal line.

Approved by: Nisha Patel, PE
City Engineer

Advertisement Date: Wednesday, May 4, 2022

Bid Date: Thursday, May 20, 2022

DOCUMENT 00 0110**TABLE OF CONTENTS**

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	00 0110	Table of Contents
	00 0115	Drawing List

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	00 2113	Instructions to Bidders
	00 3132	Geotechnical Data and Existing Conditions

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	00 4313	Bond Accompanying Bid
	00 4314	Bidder Registration Form
	00 4330	Subcontractors List
	00 4513	Statement of Qualifications for Construction Work
	00 4519	Non-Collusion Affidavit
	00 4546	Bidder Certifications

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	00 5200	Agreement
	00 5500	Notice to Proceed
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	00 6113.16	Construction Labor and Material Payment Bond
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	00 6325	Substitution Request Form
	00 6530	Agreement and Release of Any and All Claims
	00 6536	Guaranty

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Division	Section	Title
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02 8213	Asbestos Abatement
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02 8416	Hazardous Materials Removal and Disposal
31 1000	Site Clearing
31 2200	Grading
31 2316	Excavation
31 2323	Fill

APPENDICES

1. Aerial Photographs, prepared by Harris & Associates, May 2021.
2. Soil Sampling Report and Soil Remediation Plan: Entitled Soil Sampling Report and Soil Remediation Plan, Former Fort Ord - Phase 1A, dated March 4, 2022.
3. Hazardous Material Survey Report: Entitled Hazardous Materials Survey Report, Former Fort Ord - Area 1, dated January 14, 2022.

END OF DOCUMENT

DOCUMENT 00 0115

LIST OF DRAWINGS

DRAWINGS: City of Seaside Fort Ord Military Reservation Property Deconstruction and Demolition Project Phase 1A

<u>Sheet No.:</u>	<u>Drawing No.:</u>	<u>Description</u>
01	G-1	Title Sheet & Overall Project Map
02	G-2	Project Notes
03	C-1	Overall Utility Plan
04	C-2	Visitor Center Structure & Existing Conditions
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06	C-4	Visitor Center Building & Parking Lot Demolition Plan
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11	C-8	Staging & Erosion Control Plan

END OF DOCUMENT

DOCUMENT 00 1113

NOTICE INVITING BIDS

ARTICLE 1 – INVITATION TO BID

- 1.01 Notice Inviting Bids:** Owner will receive sealed Bids at the Office of the City Clerk, City of Seaside City Hall, 440 Harcourt Avenue, Seaside, California 93955, until **2:00 pm on Friday, May 20, 2022** for the following public work:

**CITY OF SEASIDE
Fort Ord Military Reservation Property
Deconstruction and Demolition Project
Phase 1A**

located near

Lightfighter Drive in Seaside, CA

- 1.02 Project Description:** This project includes the work to furnish all labor, services, material, tools, equipment, supplies, transportation, utilities, skills, and all other items and facilities necessary for the completion of the Fort Ord Military Reservation Property Deconstruction and Demolition Project. The Work generally consists of decontamination, deconstruction, demolition, removal, and proper disposal of all buildings, structures, parking lots, improvements, and select trees, shrubs, bushes, and vegetation at the Visitor Center (2,100 feet² building/structure) and adjacent parking lot (25,392 feet²). The deconstruction and demolition work shall include removal and disposal of the subject structures in their entirety to include roof structures, exterior walls, interior walls, concrete slabs and foundations, windows, doors, plumbing, mechanical, communications, and electrical systems. The site work includes removal and disposal of asphalt concrete parking lots, concrete, retaining walls, steps, excavation and backfill/fill, disconnection, capping, removal, and disposal of water, wastewater, gas, and electrical utilities, and rough grading for mitigating safety concerns and facilitating drainage.

The Work includes hazardous materials removal and proper disposal, including asbestos, lead-based paint and/or materials, lead-containing paint, universal waste, suspect polychlorinated biphenyls (PCBs), and other hazardous materials. The Visitor Center and Project footprint also includes asbestos cement pipe (ACP) on-site and below-grade. Lastly, the Work includes soil sampling and soil remediation, which is contains arsenic, hexavalent chrome, cobalt, and lead, and must be properly excavated, isolated, stockpiled, characterized (waste), and removed and disposed of at an appropriate facility.

- 1.03 Procurement of Bidding Documents:** Bidders may obtain Bidding Documents from the City's website at www.ci.seaside.ca.us or can be purchased from the City of Seaside Public Works Office: 440 Harcourt Avenue, Seaside, CA 93955; by telephone – (831) 899-6835. There is a non-refundable fee of \$50.00 charged for the plans and specifications and an additional mailing fee, if applicable, as charged by the third party courier, to be paid in advance of mailing.
- 1.04 Instructions:** Bidders shall refer to Document 00 2113 (Instructions to Bidders) for required documents and items to be submitted in a sealed envelope for deposit at the Office of the City Clerk, City of Seaside City Hall, 440 Harcourt Ave., Seaside, California 93955, no later than the time and date set forth in Paragraph 1.01 above.

- 1.05 Mandatory Pre-Bid Site Conference:** Owner will provide opportunities for Pre-Bid Site Conference on Thursday, May 12, 2022 at 2:00 pm at the Visitor Center (4214 Lightfighter Drive, Seaside, CA 93955).
- 1.06 Bid Preparation Cost:** Bidders are solely responsible for the cost of preparing their Bids.
- 1.07 Reservation of Rights:** Owner specifically reserves the right, in its sole discretion, to reject any or all Bids, to re-bid, or to waive inconsequential defects in bidding not involving time, price or quality of the work. Owner may reject any and all Bids and waive any minor irregularities in the Bids.

ARTICLE 2 – LEGAL REQUIREMENTS

- 2.01 Required Contractor's License(s):** The following license(s) and certification(s) are required of the prime contractor to bid this contract.
- A. California "Class A – General Engineering" with ASB – Asbestos Certification and HAZ – Hazardous Substance Removal Certification or;
 - B. California "Class C-21 Building Moving/Demolition Contractor" and California "Class C-22 Asbestos Abatement Contractor".
- 2.02 Lowest Bid Determination:** The determination of lowest bid shall be based upon:
Base Contract Bid Only
- 2.03 Prevailing Wage Laws:** The successful Bidder must comply with all prevailing wage laws applicable to the Project, and related requirements contained in the Contract Documents. Copies of the general prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Contract, as determined by Director of the State of California Department of Industrial Relations, are on file at [\[http://www.dir.ca.gov/OPRL/PWD/index.htm\]](http://www.dir.ca.gov/OPRL/PWD/index.htm) and are deemed included in the Bidding Documents. Upon request, Owner will make available copies to any interested party. In addition, the successful Bidder shall post the applicable prevailing wage rates at the Site.
- 2.04 Contractor Registration Requirements:** No contractor or subcontractor may be listed on a bid proposal for a public works project or may be awarded a contract for public work on a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].
- 2.05 Notice of Compliance Monitoring:** This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

END OF DOCUMENT

DOCUMENT 00 2113

INSTRUCTIONS TO BIDDERS

Bids are requested by Owner, for a general construction contract, or work described in general, as set forth in Document 00 1113 (Notice Inviting Bids), and the following additional terms.

ARTICLE 1 - PROCEDURES FOR SUBMISSION OF BIDS

1.01 Pre-Bid Conference and Site Visit

- A. Owner will conduct mandatory Conference and Pre-Bid Site Visits at the dates, times and location indicated in Document 00 1113 (Notice Inviting Bids), to consider such matters as Bidders may request.
- B. The Site Visit may be the Bidders' only opportunity to investigate conditions at the Site. Other Pre-Bid Site Visits may be scheduled at Owner's sole discretion, depending on staff availability.

1.02 Required Pre-Bid Investigations

- A. Prior to submission of Bid, Bidder must conduct a careful examination of Bidding Documents and understand the nature, extent, and location of Work to be performed. Refer to Document 00 7200 (General Conditions) on required pre-bid investigations.
- B. Bidders may examine any available existing conditions information (e.g., record documents, specifications, studies, drawings of previous work), as well as applicable environmental assessment information (if any) regarding the Project, by giving Owner reasonable advanced notice. Owner will make copies available for a fee. A Bidder must give five (5) days advanced notice if copies are desired.

1.03 Registration

- A. Each bidder and any subcontractor listed in a bid proposal pursuant to California Public Contract Code Section 4104, must be currently registered with the Department of Industrial Relations and qualified to perform public work consistent with California Labor Code section 1725.5, except in limited circumstances as referenced in California Labor Code section 1771.1(a). No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

1.04 Bidder Questions and Answers

- A. Bidders must direct all questions about the meaning or intent of Bidding Documents to Owner in writing no later than the 7th day preceding the date set for the receipt of bids. No addenda will be issued to Bidders after the 3rd day preceding the date set for the receipt of Bids. Interpretations or clarifications considered necessary by Owner in response to such questions will be issued by written Addenda and posted to the City's website. It is the Contractors responsibility to check the City's website for Addendums. Owner may not answer questions received less than seven Days prior to the date for opening Bids.
- B. Only questions answered by formal written Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect, and Bidders shall not rely on oral statements.

1.05 Addenda

- A. Addenda may also be issued to modify the Bidding Documents as deemed advisable by Owner. Addenda shall be acknowledged by number in Document 00 4113 (Bid Form) and shall be part of the Contract Documents. A complete listing of Addenda may be secured from Owner.

ARTICLE 2 - RECEIPT OF BIDS:

2.01 Date and Time

- A. Sealed Bids will be received by the Owner until the date and time indicated in Document 00 1113 (Notice Inviting Bids). All Bid envelopes will be time-stamped to reflect their submittal time. Owner shall reject all Bids received after the specified time and will return such Bids to Bidders unopened. Bidders must submit Bids in accordance with this Document 00 2113.

2.02 Bid Submission:

- A. All bids shall be submitted on the prescribed bid forms.
- B. Bidders must submit their Bid in a sealed envelope.
- C. Bidders shall label their Bid envelope by “**Bid for Construction – Fort Ord Military Reservation Property Deconstruction and Demolition Project Phase 1A** <<Bidder Name>>”.

2.03 Required Contents of Bid Submittals

- A. Document 00 4113 (Bid Form). Bidders must submit Bids on Document 00 4113 (Bid Form) in accordance with the provisions of Document 00 4113. Bidders must complete all Bid items and supply all information required by Bid documents and specifications.
- B. Document 00 4313 (Bond Accompanying Bid). Each Bid must be accompanied by the prescribed bid security in an amount equal to 10 percent of the total amount of the Bid, including the aggregate of all separate bid items and schedules covered by the Bid.
- C. Document 00 4314 (Bidder Registration and Experience Form). Bidders must submit Document 00 4314 (Bidder Registration and Experience Form), completed in accordance with the provisions of Document 00 4314.
- D. Document 00 4330 (Subcontractor List). Bidders must submit Document 00 4330 (Subcontractors List) completed in accordance with the provisions of Document 00 4330. The Subcontractors List must include the names and license numbers, of all subcontractors for those subcontractors who will perform any portion of work, including labor, rendering of service, or specially fabricating and installing a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in excess of one half of one percent (0.5%) of the total Bid amount. Any violation of this requirement may result in a Bid being deemed non-responsive and not being considered. The bidder shall install with his/her own work forces work amounting to not less than thirty percent (30%) of the total amount bid for this project and must submit a listing when requested of the actual subcontract amount to confirm compliance prior to award of the Bids.
- E. Document 00 4513 (Statement of Qualifications for Construction Work). Bidder must submit Document 00 4513 (Statement of Qualifications for Construction Work) in accordance with the provisions of Document 00 4513.
- F. Document 00 4519 (Non-Collusion Affidavit). Bidders must submit Document 00 4519 (Non-Collusion Affidavit) completed in accordance with the provisions of Document 00 4519.
- G. Document 00 4546 (Bidder Certifications). Bidders must submit Document 00 4546 (Bidder Certification) completed in accordance with the provisions of Document 00 4546.

ARTICLE 3 - BID OPENING AND EVALUATION

3.01 Determination of Apparent Low Bidder

- A. Owner will open each Bidders' Envelope at the time and place indicated in Document 00 1113 (Notice Inviting Bids), initially evaluate them for responsiveness, and determine an Apparent Low Bidder as specified herein.
- B. Apparent Low Bid will be determined solely on the total amount of all Bid items based on terms contained in Document 00 1113 (Notice Inviting Bids) and Document 00 4113 (Bid Form). All Bidders are required to submit Bids on all Bid items (including any alternates).
- C. If Apparent Low Bidder is determined to be non-responsive or non-responsible, then Owner may proceed to the next Apparent Low Bidder's Bid pursuant to any procedures determined in its reasonable discretion and proceed for all purposes as if this Apparent Low Bidder were the original Apparent Low Bidder.

3.02 Evaluation of Bids

- A. Bids must be full, complete, clearly written and using the required forms. Bidders shall make any change in the Bid by crossing out the original entry, entering and initialing the new entry. Bidder's failure to submit all required documents strictly as required entitles Owner at its sole discretion to reject the Bid as non-responsive. All Bidders must submit Bids containing each of the fully executed documents supplied in this Project Manual.
- B. In evaluating Bids, Owner will consider Bidders' qualifications, whether or not the Bids comply with the prescribed requirements, unit prices, and other data, as may be requested in Document 00 4113 (Bid Form) or prior to the Notice of Award.
- C. Owner may conduct reasonable investigations and reference checks of Bidder and other persons and organizations as Owner deems necessary to assist in the evaluation of any Bid and to establish Bidder's responsibility, qualifications, financial ability and ability to perform the Work in accordance with the Contract Documents to Owner's satisfaction within the prescribed time. Submission of a Bid constitutes Bidder's consent to the foregoing.
- D. Owner shall have the right to consider information provided by sources other than Bidder. Owner shall also have the right to communicate directly with Bidder's surety regarding Bidder's bonds.
- E. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between written words and figures will be resolved in favor of the words.
- F. Bids shall be deemed to include the written responses of the Bidder to any questions or requests for information of Owner made as part of Bid evaluation process after submission of Bid.

3.03 Reservation of Rights

- A. Owner reserves the right to reject any or all nonconforming, non-responsive, unbalanced, or conditional Bids, and to reject the Bid of any Bidder as non-responsive as a result of any error or omission in the Bid, or if Owner believes that it would not be in the best interest of Project to make an award to that Bidder, whether because the Bid is not responsive or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by Owner. For purposes of this paragraph, an "unbalanced Bid" is one having nominal prices for some Bid items and enhanced prices for other Bid items.
- B. Owner may retain Bid securities and Bid bonds of other than the Apparent Low Bidder for a period of 90 Days after award or full execution of the Contract, whichever first occurs.
- C. Owner may reject any or all Bids and waive any informalities or minor irregularities in the Bids. Owner also reserves the right, in its discretion, to reject any or all Bids and to re-bid the Project.

ARTICLE 4 - MANDATORY BID PROTEST PROCEDURES:

4.01 Submission of Written Bid Protest

- A. Any Bid protest in connection with the construction contract or work described in general in Document 00 1113 (Notice Inviting Bids) must be submitted in writing to **City Clerk's Office, 440 Harcourt Avenue Seaside, CA 93955**, before **3:30 P.M.** of the third Business Day following opening of the Bidders' envelopes.
- B. The initial protest document must contain a complete statement of the basis for the protest.
- C. The protest must refer to the specific portion of the document that forms the basis for the protest.
- D. The protest must include the name, address, and telephone number of the person representing the protesting party.
- E. Only Bidders who the Owner otherwise determines are responsive and responsible are eligible to protest a Bid; protests from any other party will not be considered. In order to determine whether a protesting Bidder is responsive and responsible, Owner may evaluate all information contained in any protesting Bidder's Bid and conduct the same investigation and evaluation as Owner is entitled to take regarding an Apparent Low Bidder.
- F. The party filing the protest must concurrently transmit a copy of the initial protest document and any attached documentation to all other parties with a direct financial interest that may be adversely affected by the outcome of the protest. Such parties shall include all other Bidders who appear to have a reasonable prospect of receiving an award depending upon the outcome of the protest.

4.02 Exclusive Remedy

- A. The procedure and time limits set forth in this paragraph are mandatory and are Bidder's sole and exclusive remedy in the event of Bid protest. Bidder's failure to comply with these procedures shall constitute a waiver of any right to further pursue the Bid protest, including filing a Government Code Claim or legal proceedings. A Bidder may not rely on a protest submitted by another Bidder but must timely pursue its own protest.

ARTICLE 5 - AWARD AND EXECUTION OF CONTRACT

5.01 Notice of Award and Submittal of Executed Contract Documents

- A. If Contract is to be awarded, it will be awarded to the lowest responsible responsive Bidder. Owner will issue Document 00 5100 Notice of Award. Such Award, if made, will be made within ninety (90) days after the opening of the Bid Proposals.
- B. Successful Bidder must execute and submit to Owner the "Required Contract Documents and Proof of Insurance" set forth below, by 5:00 p.m. of the 7th Calendar Day following the Notice of Award.

5.02 Required Contract Documents and Proof of Insurance

- A. Document 00 5200 (Agreement), fully executed by successful Bidder. Submit two originals, each bearing an original signature and initials on each page.
- B. Document 00 6113.13 (Construction Performance Bond), fully executed by successful Bidder and surety, in the amount set forth in Document 00 6113.13. Submit one original.
- C. Document 00 6113.16 (Construction Labor and Material Payment Bond), fully executed by successful Bidder and surety, in the amount set forth in Document 00 6113.16. Submit one original.
- D. Document 00 6536 (Guaranty), fully executed by successful Bidder.
- E. Insurance certificates and endorsements required by Document 00 7316 (Supplementary Conditions—Insurance): Submit one original set.

5.03 Failure to Execute and Deliver Documents:

- A. If Bidder to whom Contract is awarded, within the period described in this Document 00 2113, fails or neglects to execute and deliver all required Contract Documents and file all required bonds, insurance certificates, and other documents, Owner may, in its sole discretion, rescind the award, recover on Bidder's surety bond, or deposit Bidder's cashier's check or certified check for collection, and retain the proceeds thereof as liquidated damages for Bidder's failure to enter into the Contract Documents. Bidder agrees that calculating the damages Owner may suffer as a result of Bidder's failure to execute and deliver all required Contract Documents would be extremely difficult and impractical and that the amount of Bidder's required Bid security shall be the agreed and presumed amount of Owner's damages.
- B. Upon such failure to timely deliver all required Contract Documents as set forth herein, Owner may determine the next Apparent Low Bidder and proceed accordingly. Such Award, if made, will be made within ninety (90) days after the opening of the Bid Proposals.

ARTICLE 6 - GENERAL CONDITIONS AND REQUIREMENTS

6.01 Modification of Commencement of Work:

- A. Owner expressly reserves the right to modify the date for the Commencement of Work under the Contract and to independently perform and complete work related to Project. Owner accepts no responsibility to Contractor for any delays attributed to its need to complete independent work at the Site.
- B. Owner shall have the right to communicate directly with Apparent Low Bidder's proposed performance bond surety, to confirm the performance bond. Owner may elect to extend the time to receive faithful performance and labor and material payment bonds.

6.02 Conformed Project Manual:

- A. Following Award of Contract, Owner may prepare a conformed Project Manual reflecting Addenda issued during bidding, which will, failing objection, constitute the approved Project Manual.

6.03 Bonds:

- A. The successful Bidder shall furnish to the Owner a Performance Bond ensuring the performance of the Work in accordance with the Contract Documents and a Payment Bond ensuring the payment of all obligations arising from the Work. Sureties and Bonds shall comply with the requirements in the General Conditions and Supplementary Conditions. Bonds shall be delivered to the Owner at the time and place the Contract Agreement is executed unless otherwise provided in the Contract Documents or otherwise approved in writing by the Owner. Bonds shall conform exactly to the forms included in Section 00 6113.13 and 00 6113.16 of the Contract Documents.
- B. Failure to execute the bonds within the time specified shall allow the Owner to consider that the Bidder has abandoned the Contract, in which case the check or bidder's bond accompanying the bid shall be the property of the Owner.
- C. The Performance and Payment Bond(s) may be either a single bond or a separate Performance Bond and a Separate Payment (labor and materials) Bond. If a single bond is used, it must be in the amount of two hundred percent (200%) of the Total Bid, and if separate Bonds are used, each must be for one hundred percent (100%) of the Total Bid. The Bond covering payment must comply with Section 3248 of the California Civil Code.
- D. All bonds and endorsements thereto to be submitted pursuant to the terms of the Contract Documents must be written and issued by a company having a minimum of an "A" rating and of adequate financial category as rated by the current edition of Best's Key Rating Guide as published by A. M. Best Company, Oldwick, New Jersey 08858.

6.04 Wage Rates:

- A. Copies of the general prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Contract, as determined by Director of the State of California Department of Industrial Relations, and are pursuant to Section 1773 of the Labor Code and can be found at <http://www.dir.ca.gov/dlsr/PWD/Northern.html>.

6.05 Notice of Compliance Monitoring:

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

6.06 Withdrawal of Bids:

- A. Bidders may withdraw their Bids at any time prior to the Bid opening time fixed in this Document 00 2113, only by written request for the withdrawal of Bid filed with Owner at **440 Harcourt Avenue, Seaside, CA 93955**. Bidder or its duly authorized representative shall execute request to withdraw Bid.

6.07 Ineligible Contractors and Subcontractors:

- A. Owner shall not accept a Bid from a Bidder who is ineligible to bid or work on, or be awarded, a public works project pursuant to California Labor Code section 1777.1 or 1777.7. Bidders and the Contractor who is awarded the project contract shall not utilize, or allow work by, any subcontractor who is ineligible to bid or work on, or be awarded, a public works project pursuant to California Labor Code Section 1777.1 or 1777.7. (See California Public Contract Code Section 6109.) The California Division of Labor Standards Enforcement publishes a list of debarred contractors and subcontractors on the Internet at www.dir.ca.gov/DLSE/debar.html.

6.08 Substitutions:

- A. Bidders must base their Bids on products and systems specified in Contract Documents or listed by name in Addenda. Owner will consider substitution requests only for "or equal items." Bidders wanting to use "or equal" item(s) may submit Document 00 6325 (Substitution Request Form) no later than 15 Calendar Days after Notice of Award. As a limitation on Bidder's privilege to request substitution of "or equal" items, Owner has found that certain items are designated as Owner standards and certain items are designated to match existing items in use on a particular public improvement either completed or in the course of completion or are available from one source. As to such items, Owner will not permit substitution. Such items are described in the Bidding Documents as "No substitutions allowed".

6.09 Definitions:

- A. All abbreviations and definitions of terms used in this Document 00 2113 are set forth in Document 00 7200 (General Conditions) and Section 01 4200 (References and Definitions).

END OF DOCUMENT

DOCUMENT 00 3132

GEOTECHNICAL DATA AND EXISTING CONDITIONS

ARTICLE 1 - REPORTS AND INFORMATION ON EXISTING CONDITIONS

1.01 Inspection of Reports:

- A. Owner, its consultants, and prior contractors may have collected documents providing a general description of the Site and conditions of the Work. These documents may consist of geotechnical reports for and around the Site, contracts, contract specifications, tenant improvement contracts, as-built drawings, utility drawings, and information regarding Underground Facilities (collectively, "Existing Conditions Data".)
- B. Bidders may inspect Geotechnical and Existing Conditions Data. These documents are listed below and are available for review at the address identified therein. Copies may be obtained for the cost of reproduction and handling upon Bidder's payment for the costs.
 - 1. **None.** Only the Reports in the Appendices are available for review.
- C. Existing Conditions Data is for information only and does not describe labor, materials or equipment furnished by Contractor, but rather, information regarding conditions of the work. Such Existing Conditions Data is not a Contract Document.

ARTICLE 2 - USE OF EXISTING CONDITIONS DATA

2.01 Above-Ground Existing Conditions:

- A. Owner makes no warranty or representation of existing aboveground conditions, as-built conditions, or other aboveground actual conditions verifiable by reasonable independent investigation. These conditions are verifiable by Bidder by the performance of its own independent investigation that Bidder must perform prior to bidding and Bidder must not rely on the information supplied by Owner regarding existing conditions.
- B. Bidder represents and agrees that in submitting its Bid, it is not relying on any information regarding above-ground existing conditions supplied by Owner.

2.02 Underground Facilities:

- A. Information supplied regarding existing Underground Facilities at or contiguous to the Site is based on information furnished to Owner by others (e.g., the builders of such Underground Facilities or others).
- B. Owner assumes responsibility for only the general accuracy, completeness or thoroughness of information regarding Underground Facilities that are owned by Owner. This express assumption of responsibility applies only if Bidder has conducted the independent investigation required of it under Document 00 7200 (General Conditions) and discrepancies were not apparent. Bidder is solely responsible for any interpretation or conclusion drawn from this information.
- C. Owner is not responsible for information regarding Underground Facilities owned by others.

ARTICLE 3 - INVESTIGATIONS

3.01 Required Investigations:

- A. Before submitting a Bid, each Bidder shall be responsible to obtain such additional or supplementary examinations, investigations, explorations, tests, studies and data concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site or otherwise, which may affect cost, progress, performance or furnishing of Work or which relate to any aspect of the means, methods, techniques, sequences or procedures of construction to be employed by Bidder and safety precautions and programs incident thereto or which Bidder deems necessary to determine its Bid for performing and furnishing the Work in accordance with the time, price and other terms and conditions of Contract Documents.

- B. Bidders shall advise Owner in writing during the Bid period of any questions, suppositions, inferences or deductions Bidders may have for Owner's review and response.
- C. Owner has provided time in the period prior to bidding for Bidder to perform these investigations.

3.02 Access to Site for Investigations:

- A. During the Pre-Bid Site Visit(s), Owner will provide each Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies, as each Bidder deems necessary for submission of a Bid. Bidders must fill all holes, clean up, and restore the Site to its former conditions upon completion of such explorations, investigations, tests, and studies. Such investigations may be performed only under the provisions of Document 00 2113 (Instructions to Bidders) and Document 00 7200 (General Conditions) including, but not limited to, proof of insurance and obligation to indemnify against claims arising from such investigation work. Each Bidder shall supply all equipment required to perform any investigations as each Bidder deems necessary. Owner has the right to limit the number of pieces of machinery operating at one time due to safety concerns.

END OF DOCUMENT

DOCUMENT 004113

BID FORM

TO CITY OF SEASIDE

THIS BID IS SUBMITTED BY:

(Firm/Company Name)

Re: City of Seaside **Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A** located in Seaside, California 93955.

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the City of Seaside in the form included in the Contract Documents, Document 005200 (Agreement), to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Sum and within the Contract Time indicated in this Bid and in accordance with all other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Contract Documents, Document 001000 (Notice Inviting Bids), and Document 002113 (Instructions to Bidders), including, without limitation, those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for 90 Days after the day of Bid opening, unless there is a bid protest, then 120 days after the day of bid opening.
3. In submitting this Bid, Bidder represents that Bidder has examined all of the Contract Documents, performed all necessary Pre-Bid investigations, received the Pre-Bid conference minutes (if any), and received the following Addenda:

Addendum Number	<u>ADDENDUM DATE</u>	Signature of Bidder

4. Based on the foregoing, Bidder proposes and agrees to fully perform the Work within the time stated and in strict accordance with the Contract Documents for the following sums of money listed in the following Schedule of Bid Prices:

SCHEDULE OF BID PRICES

All Bid items, including lump sums and unit prices, must be filled in completely. Bid items are described in Section 01 1100 (Summary of Work). Quote in figures only, unless words are specifically requested.

ITEM #	BID ITEM	EST. QTY.	UNIT	UNIT PRICE	TOTAL
1	Mobilization, bonds, permits and insurance and demobilization on all work, complete at	---	LS		
2	Traffic Control Planning and Implementation	---	LS		
3	Water Pollution and Erosion Control	---	LS		
4	QSP SWPPP Reporting	---	LS		
5	Subsurface Utility Location and Potholing	---	LS		
6	Structure/Building Deconstruction, Demolition, Removal, and Proper Disposal	---	LS		
7	Proper Removal and Disposal of Asbestos-Containing Materials Associated with Bid Item No. 6	---	LS		
8	Proper Removal and Disposal of Lead-Based Paint and Lead-Containing Materials Associated with Bid Item No. 6	---	LS		
9	Proper Removal and Disposal of Other Hazardous Materials Abatement (Universal Waste Materials, PCBs, Ozone-Depleting Devices, Miscellaneous)	---	LS		
10	Waste Characterization Sampling and Segregation Activities (Hazardous Materials), As Required by Law	---	LS		
11	Asphalt Concrete Pavement Demolition, Removal, and Proper Disposal	---	LS		
12	Parking Lot Lights Disassembly, Removal, and Proper Disposal	2	EA		
13	Sawcutting Existing Asphalt Concrete Pavement	90	LF		
14	Water System Utilities (Including Asbestos-Cement Piping) Demolition, Removal, and Proper Disposal	---	LS		
15	Water Main Disconnection, Cut, and Cap (South of Visitor Center, Off-Site)	1	EA		
16	Sanitary Sewer System Utilities Demolition, Removal, and Proper Disposal	---	LS		
17	Sanitary Sewer Manhole Cut and Plug	1	EA		

18	Telecommunication Utilities Disconnection, Demolition, Removal, and Proper Disposal	---	LS		
19	Disconnect, Cut, and Cap Utilities Per Utility Owner Requirements	4	EA		
20	Construction Field Survey and Reporting (Initial and Secondary Over-Excavations)	2	EA		
21	Initial Over-Excavation Beneath Hardscape Surfaces (2'-0" Depth)	1,960	CY		
22	Secondary Over-Excavation Beneath Hardscape Surfaces (1'-0" Depth, Incremental)	980	CY		
23	Initial Over-Excavation Beneath Structure/Building (2'-0" Depth)	325	CY		
24	Secondary Over-Excavation Beneath Structure/Building (1'-0" Depth, Incremental)	163	CY		
25	Undefined Over-Excavation (1'-0" Depth, Incremental)	100	CY		
26	Contaminated Soils Stockpiling and Protections	---	LS		
27	Removal of Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Within 5'-0" of Structure/Building (Level With Ground Surface, Does Not Include Root Systems)	---	LS		
28	Removal of All Other Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Not Including Bid Item No. 27 (Including Root Systems)	---	LS		
29	Tree Protection Fencing	450	LF		
30	Type "A" Asphalt Concrete Berm/Dike	80	LF		
31	Final Site Grading and Preparation	---	LS		
32	Permit and Testing Allowance – Reimbursement for the actual cost of required permits and laboratory testing.	---	ALW	\$5,000	\$5,000
TOTAL					
The TOTAL BASE BID AMOUNT described in words is:					

_____ and _____/100 DOLLARS)					

*Item not subject to unit price quantities "less than 75 percent or greater than 125 percent of the estimated quantities bid" as outlined in Section 012000, 1.03.B "Unit Price Items".

5. Subcontractors for work included in all Bid items are listed on Document 004330 (Subcontractors List) submitted herewith.
6. The undersigned Bidder understands that Owner reserves the right to reject this Bid.
7. If written notice of the acceptance of this Bid, hereinafter referred to as Notice of Award, is mailed or delivered to the undersigned Bidder within the time described in Paragraph 2 of this Document 004113 or at any other time thereafter before it is withdrawn, the undersigned Bidder will execute and deliver the documents required by Document 002113 (Instructions to Bidders) within the times specified therein.
8. Notice of Award or request for additional information may be addressed to the undersigned Bidder at the address set forth below.
9. The undersigned Bidder herewith encloses cash, a cashier's check, or certified check of or on a responsible bank in the United States, or a corporate surety bond furnished by a surety authorized to do a surety business in the State of California, in form specified in Document 002113 (Instructions to Bidders), in the amount of ten percent (10%) of the Total Bid Price and made payable to the City of Seaside.
10. The undersigned Bidder agrees to commence Work under the Contract Documents on the date established in Document 007200 (General Conditions) and to complete all Work within the time specified in Document 005200 (Agreement).
11. The undersigned Bidder agrees that, in accordance with Document 007200 (General Conditions), liquidated damages for failure to complete all Work in the Contract within the time specified in Document 005200 (Agreement) shall be as set forth in Document 005200.
12. The names of all persons interested in the foregoing Bid as principals are:

IMPORTANT NOTICE:

If Bidder or other interested person is a corporation, give the legal name of corporation, state where incorporated, and names of president and secretary thereof; if a partnership, give name of the firm and names of all individual co-partners composing the firm; if Bidder or other interested person is an individual, give first and last names in full.

NAME OF BIDDER: _____ licensed in accordance with
an act for the registration of Contractors, and with license number: _____, with
Expiration: _____.

(Place of Incorporation, if Applicable)

(Principal, Name/Title)

(Principal, Name/Title)

(Principal, Name/Title)

NOTE: If Bidder is a corporation, set forth the legal name of the corporation together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If Bidder is a

partnership, set forth the name of the firm together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership.

Business Address:

Contractor's Representative(s):

(Name/Title)

(Name/Title)

(Name/Title)

Officers Authorized to Sign Contracts

(Name/Title)

(Name/Title)

(Name/Title)

Telephone Number(s):

(Area Code) (Number)

(Area Code) (Number)

Fax Number(s):

(Area Code) (Number)

(Area Code) (Number)

Date of Bid:

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

(Signature of Bidder)

Name / Title

END OF DOCUMENT

DOCUMENT 00 4313

BOND ACCOMPANYING BID

KNOW ALL BY THESE PRESENTS:

That the undersigned

(Name of Contractor)

as Principal and the undersigned as Surety are held and firmly bound unto Owner, the City of Seaside, as obligee, in the penal sum of (Dollar Amount In Words)

Dollars (\$_____) lawful money of the United States of America being at least ten percent (10%) of the aggregate amount of said Principal's base Bid, for the payment of which, well and truly to be made, we bind ourselves, our successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal is submitting a Bid for **Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A** located in Seaside, California, 93955.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the Bid submitted by the said Principal be accepted and the Contract be awarded to said Principal and said Principal shall within the required periods enter into the Contract so awarded and provide the required Construction Performance Bond, Construction Labor and Material Payment Bond, insurance certificates, Guarantee, and all other endorsements, forms, and documents required under Document 00 2000 (Instructions to Bidders), then this obligation shall be void, otherwise to remain in full force and effect.

IN WITNESS WHEREOF, the above bounden parties have executed this instrument this _____ day of _____, 2022.
(Month)

(Corporate Seal)

By _____
Principal

Name /Title

By _____
Surety

Name /Title

(Corporate Seal)

By _____
Attorney in Fact

Name /Title

END OF DOCUMENT

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DOCUMENT 00 4314

BIDDER REGISTRATION FORM

INSTRUCTIONS

In order to register to undertake work for Owner, Bidder must:

- 1) Fill out this registration form completely; do not leave blanks.
- 2) Provide certificates of insurance or a letter evidencing coverage complying with Document 00 4513 (Statement of Qualifications).

INDEPENDENT CONTRACTOR REGISTRATION

Contractor's License # _____

Date: _____ Fed I.D. # _____

Full Corporate Name of Company: _____

Street Address: _____

Mailing Address: _____

Phone: _____ Fax: _____

Name of Principal Contact: _____

Type of Business: _____ Sole Proprietor _____ Partnership
_____ Non-Profit 501(c)(3) _____ Corporation
_____ other (please explain: _____)

INSURANCE

Workers' Compensation:

Carrier: _____

Address: _____

Phone and Fax: _____

Policy Number: _____

General Liability:

Carrier: _____

Address: _____

Phone and Fax: _____

Policy Number: _____

Policy Limits: \$ _____

A.M. Best Rating: _____

Automobile Liability:

Carrier: _____

Address: _____

Phone and Fax: _____

Policy Number: _____

Policy Limits: \$ _____

A.M. Best Rating: _____

All-risk Course of Construction (if applicable, as required by Document 00 7316 [Supplementary Conditions – Insurance]):

Carrier: _____

Address: _____

Phone and Fax: _____

Policy Number: _____

Policy Limits: \$ _____

A.M. Best Rating: _____

Professional Liability (if applicable, as required by Document 00 7316 [Supplementary Conditions – Insurance]):

Carrier: _____

Address: _____

Phone and Fax: _____

Policy Number: _____

Policy Limits: \$ _____

A.M. Best Rating: _____

**Pollution Legal Liability Insurance (if applicable, as required by Document 00 7316
[Supplementary Conditions – Insurance]):**

Carrier: _____

Address: _____

Phone and Fax: _____

Policy Number: _____

Policy Limits: \$ _____

A.M. Best Rating: _____

**BIDDER CERTIFIES, UNDER PENALTY OF PERJURY, THAT THE FOREGOING
INFORMATION IS CURRENT AND ACCURATE AND AUTHORIZES OWNER, AND ITS AGENTS AND
REPRESENTATIVES TO OBTAIN A CREDIT REPORT AND/OR VERIFY ANY OF THE ABOVE
INFORMATION.**

SIGNATURE

DATE

SAFETY EXPERIENCE

The following statements as to the Bidder's safety experience are submitted with the Bid, as part thereof, and the Bidder guarantees the truthfulness and accuracy of all information.

1. List Bidder's interstate Experience Modification Rate for the last three years.
[20__] _____ [20__] _____ [20__] _____
2. Use Bidder's last year's Cal/OSHA 200 log to fill in the following number of injuries and illnesses:
 - a. Number of lost workday cases _____
 - b. Number of medical treatment cases _____
 - c. Number of fatalities _____
3. Employee hours worked last year _____
4. State the name of Bidder's safety engineer/manager: _____

Attach a resume or outline of safety engineer/manager's safety and health qualifications and experience.

I CERTIFY, UNDER PENALTY OF PERJURY, THAT THE FOREGOING INFORMATION IS CURRENT AND ACCURATE AND I AUTHORIZE OWNER, AND ITS AGENTS AND REPRESENTATIVES TO OBTAIN A CREDIT REPORT AND/OR VERIFY ANY OF THE ABOVE INFORMATION.

BIDDER:

By: _____
Signature / Name

Its: _____
Title

Date _____

END OF DOCUMENT

DOCUMENT 00 4330

SUBCONTRACTORS LIST

Bidder submits the following information as to the subcontractors Bidder intends to employ if awarded the Contract.

Full Name of Subcontractor and Address of Mill or Shop	Description of Work: Reference To Bid Items	Subcontractor's License No.	Public Works Contractor Registration NO.	Value of Work (\$)

(Bidder to attach additional sheets if necessary)

END OF DOCUMENT

DOCUMENT 004513

STATEMENT OF QUALIFICATIONS FOR CONSTRUCTION WORK

ARTICLE 1 – GENERAL INFORMATION

1.01 Minimum Bidder Qualifications.

- A. Bidders must be duly licensed in accordance with the California Business & Professions Code and have a history of work performance sufficient to meet the requirements of a responsible bidder in the California Public Contract Code Section 1104.
- B. The prime contractor must possess either a “Class A – General Engineering” or the licenses described in Document 00 1113. This contractor must have a minimum five (5) years experience as a continuously operating entity engaged in the performance of similar work and successfully completed ten (10) projects over the last 5 years.
- C. Bidders must demonstrate successful experience with type of work of this Project, to include, within the past year, completed one (1) deconstruction and demolition project of a similar nature and complexity, each with a contract dollar amount of at (i) least 75% of the amount of Bidder's Bid or (ii) 125% of such amount in the aggregate, and with a minimum combined amount for all such contracts of \$1 million.

1.02 Measurement.

- A. Bidder's compliance with the minimum qualification requirements will be measured by Bidder's experience as an operating entity and also by the experience of the supervisory personnel who will have responsible charge of the various major components of the Work.
- B. If Bidder subcontracts portions of the Work, Owner, in its determination of whether the minimum qualification requirements have been met, may consider the qualifications of the Subcontractor's supervisory personnel.
- C. The qualifications of the Key Personnel are to be submitted with the Statement of Qualifications (“SOQ”), by providing the information described in this Document 004513.

ARTICLE 2 – REQUIRED CONTENTS OF SOQ SUBMISSION

2.01 Transmittal Letter.

- A. The Transmittal Letter shall name the proposed prime contractor, its legal structure (i.e., corporation, partnership, limited partnership, joint venture). If a joint venture or partnership is proposed, Bidder shall identify partner and/or member of the joint venture and their roles and responsibilities.

2.02 Submittals:

- A. Completed Questionnaire. Bidder shall include a completed Statement of Qualification Questionnaire in the form attached to this Document 004513 as Attachment “A”.
- B. Resumes of Proposed Key Personnel. Bidder shall provide a resume for each named Key Personnel of Bidder, to include as necessary: Years of experience; Education - degrees, schools and years obtained; Professional Registrations; Fluency in English (Yes/No); At least two client references, including contact names, addresses and telephone numbers, and description of projects of a similar nature worked on in the past five years.
- C. NOT USED
- D. Surety Letter re: Capability to Provide Required Performance and Payment Bonds. Bidder shall include a letter from a surety duly licensed to do business in the State of California, having a financial rating from A.M. Best Company of A-, VII or better, that the surety has agreed to provide Bidder with the required performance and payment bonds in accordance with the requirements set forth in Documents 00 6113.13 (Construction Performance Bond) and 00 6113.16

(Construction Labor and material Payment bold), each in the penal sum of the Contractor's bid when submitted. Owner shall have the right to verify with the surety that the surety, based upon the Bid prices, will issue the required bonds under the conditions stated.

- E. Insurer Letter re: Capability to Provide the Required Insurance. Bidder shall provide a letter from an insurance underwriter, having a financial rating reasonably acceptable to Owner, confirming that the insurer will provide Bidder the required coverages and amounts specified in the Contract Documents.
- F. NOT USED;
- G. License: Evidence of a valid contractor's license and required licenses of all licensees of persons who are Key Personnel necessary to perform the Work.
- H. NOT USED.

2.03 Format.

- A. The SOQ shall be clear and concise to enable management-oriented personnel to make a thorough evaluation and arrive at a sound determination as to whether the SOQ meet Owner's requirement. To this end, the SOQ should be so specific, detailed and complete as to demonstrate clearly and fully that the Bidder has a thorough understanding of and has demonstrated knowledge of the requirements to perform the Work (or applicable portion thereof).
- B. Any explanation requested by a Bidder regarding the meaning or interpretation of this Document 00 4513 must be requested in writing and with sufficient time allowed for a reply to reach Bidder before the submission of its SOQ. Oral explanations or instructions will not be binding. Any information provided to any prospective Bidder concerning this Document 00 4513 will be furnished to all prospective Bidders as an Addendum to the Bidding Documents.

STATEMENT OF QUALIFICATION QUESTIONNAIRE FOLLOWS ON NEXT PAGE

ATTACHMENT "A" – Statement of Qualification Questionnaire

Bidders shall complete the entire Statement of Qualification Questionnaire and submit it in accordance with Document 00 2000 (Instructions to Bidders) and Document 00 4513 (Statement of Qualifications). Failure to complete the questionnaire or inclusion of any false statement(s) shall be ground for immediate disqualification.

CONTACT INFORMATION

Company Name: _____

Owner of Company: _____

Contact Person: _____

Address: _____

Phone: _____ Fax: _____

Address: _____

Department of Industrial Relations (DIR) Registration No.: _____

PART A: GENERAL INFORMATION

1. Does Bidder possess a valid and current California Contractor's license for the work proposed? Yes ___ No ___
2. Does Bidder have a minimum of \$2,000,000 liability insurance coverage? Yes ___ No ___
3. Has Bidder's License been revoked at any time in the last five years? Yes ___ No ___
4. Has Bidder been "default terminated" by an Owner (other than for convenience), or has a Surety completed a contract for Bidder within the last five years? Yes ___ No ___
5. Has Bidder been convicted more than twice for failure to pay prevailing wages in the last three years? Yes ___ No ___

Bidder may be disqualified if any answer to questions 1, or 2 is No.

Bidder may be disqualified if any answer to questions 3, 4, or 5 is Yes.

PART B: SAFETY, PREVAILING WAGE, DISPUTES AND BONDS**SAFETY**

1. Has Cal/OHSA, Federal OSHA, the EPA or any Air Quality Management Owner cited Bidder in the past five years?
Yes ___ No ___ If yes, attach description of each citation.
2. How often does Bidder require documented safety meetings be held for:

Field Supervisor	Weekly _____	Bi-Weekly _____	Monthly _____	Less Than Monthly _____
Employees	Weekly _____	Bi-Weekly _____	Monthly _____	Less Than Monthly _____
New Hires	Weekly _____	Bi-Weekly _____	Monthly _____	Less Than Monthly _____

Statement of Qualifications for
Construction Work

004513 - 3

City of Seaside
Fort Ord Military Reservation Property
Deconstruction and Demolition Project
Phase 1A

Subcontractors Weekly _____ Bi-Weekly _____ Monthly _____ Less Than Monthly _____

3. How often does Bidder conduct documented safety inspections?
Quarterly _____ Semi-annually _____ Annually _____ Other _____
4. Does Bidder have home office safety representatives who visit/audit the job site?
Quarterly _____ Semi-annually _____ Annually _____ Other _____
5. What is Bidder's Interstate Experience Modification Rate? _____. (A rating in excess of **1** may constitute grounds for disqualification as non-responsible).

PREVAILING WAGE PROVISIONS

6. Has Bidder been fined, penalized or otherwise found to have violated any prevailing wage or labor code provision? If yes, attach description of each occurrence.
Yes _____ No _____

LICENSE PROVISIONS

7. Has Bidder changed names or license numbers in the past 5 years? If so, please state reason for change.
Yes _____ No _____ Reason: _____

DISPUTES

8. Has Bidder had any claims, litigation, or disputes ending in mediation or arbitration, or termination for cause associated with any project in the past 5 years? The Bidder may attach description of each instance including details of total claim amount, settlement amount, and Owner's name and phone number.
Yes _____ No _____

If yes, please describe the circumstances below:

BONDING

9. Bonding Capacity – Provide documentation from Bidder's surety identifying the following:
Name of bonding company/surety: _____

Name of Surety Agent: _____

Surety Agent address: _____

Surety Agent phone number: _____

Is surety a California-admitted surety? Yes _____ No _____

Is surety listed in the current edition of the California Department of the Treasury's Listing of approved sureties? Yes _____ No _____

List surety's A.M. Best Rating: _____

**PART C1: EXPERIENCE OF CONTRACTOR
CLASS A LICENSURE**

The nature of this Project requires prior similar experience for the firm and the Key Personnel assigned. Summarize similar project experience below and provide the detailed project information requested:

List three projects of similar size and scope to the Work of the Contract, completed in the past five (5) years, and indicate who were the superintendent, project manager and scheduler. NOTE: this listing will be used to assess compliance with the stated minimum qualifications in Paragraph 1.01C.

Project Name	Construction Cost (\$)	Year Completed	Name of Project Superintendent	Name of Project Manager	Name of Project Scheduler

List Key Personnel that will be assigned to the Work of the current Project and their experience/training with the projects listed above:

Project Manager: _____

Project Superintendent: _____

Project Scheduler: _____

Recent Projects.

Provide information about three (3) of its most currently completed projects. Names and references must be current and verifiable. This listing will be used to assess compliance with the stated minimum qualifications in Paragraph 1.01C. If a separate sheet is used, it must contain all of the following information:

1. Project Name: _____
 Location: _____
 Owner: _____
 Owner Contact (name and phone): _____
 Architect/Engineer: _____
 Architect/Engineer Contact (name and phone number): _____
 Const. Mgr. or Project Mgr. (name and phone number): _____
 Description of Project, Scope of Work Performed: _____

 Total Construction Cost: _____
 Total Change Order Amount: _____
 Did Change Orders exceed 10% of original contract sum? _____ If yes, please explain on separate sheet.
 Original Scheduled Date of Completion: _____
 Time Extensions Granted (number of Days): _____
 Actual Date of Completion: _____
 Number of Stop Notices filed by Subcontractors or Suppliers: _____
2. Project Name: _____
 Location: _____
 Owner: _____
 Owner Contact (name and phone): _____
 Architect/Engineer: _____
 Architect/Engineer Contact (name and phone number): _____
 Const. Mgr. or Project Mgr. (name and phone number): _____
 Description of Project, Scope of Work Performed: _____

Total Construction Cost: _____

Total Change Order Amount: _____

Did Change Orders exceed 10% of original contract sum? _____ If yes, please explain on separate sheet.

Original Scheduled Date of Completion: _____

Time Extensions Granted (number of Days): _____

Actual Date of Completion: _____

Number of Stop Notices filed by Subcontractors or Suppliers: _____

3. Project Name: _____

Location: _____

Owner: _____

Owner Contact (name and phone): _____

Architect/Engineer: _____

Architect/Engineer Contact (name and phone number): _____

Const. Mgr. or Project Mgr. (name and phone number): _____

Description of Project, Scope of Work Performed: _____

Total Construction Cost: _____

Total Change Order Amount: _____

Did Change Orders exceed 10% of original contract sum? _____ If yes, please explain on separate sheet.

Original Scheduled Date of Completion: _____

Time Extensions Granted (number of Days): _____

Actual Date of Completion: _____

Number of Stop Notices filed by Subcontractors or Suppliers: _____

**PART C2: EXPERIENCE OF BUILDING MOVING/DEMOLITION CONTRACTOR
CLASS C-21 LICENSURES**

The nature of this Project requires prior similar experience for the firm and the Key Personnel assigned. Summarize similar project experience below and provide the detailed project information requested:

List three projects of similar size and scope to the Work of the Contract, completed in the past five (5) years, and indicate who were the superintendent, project manager and scheduler. NOTE: this listing will be used to assess compliance with the stated minimum qualifications in Paragraph 1.01C.

Project Name	Construction Cost (\$)	Year Completed	Name of Project Superintendent	Name of Project Manager	Name of Project Scheduler

List Key Personnel that will be assigned to the Work of the current Project and their experience/training with the projects listed above:

Project Manager: _____

Project Superintendent: _____

Project Scheduler: _____

Recent Projects.

Provide information about three (3) of its most currently completed projects. Names and references must be current and verifiable. This listing will be used to assess compliance with the stated minimum qualifications in Paragraph 1.01C. If a separate sheet is used, it must contain all of the following information:

1. Project Name: _____
 Location: _____
 Owner: _____
 Owner Contact (name and phone): _____
 Architect/Engineer: _____
 Architect/Engineer Contact (name and phone number): _____
 Const. Mgr. or Project Mgr. (name and phone number): _____
 Description of Project, Scope of Work Performed: _____

 Total Construction Cost: _____
 Total Change Order Amount: _____
 Did Change Orders exceed 10% of original contract sum? _____ If yes, please explain on separate sheet.
 Original Scheduled Date of Completion: _____
 Time Extensions Granted (number of Days): _____
 Actual Date of Completion: _____
 Number of Stop Notices filed by Subcontractors or Suppliers: _____
2. Project Name: _____
 Location: _____
 Owner: _____
 Owner Contact (name and phone): _____
 Architect/Engineer: _____
 Architect/Engineer Contact (name and phone number): _____
 Const. Mgr. or Project Mgr. (name and phone number): _____
 Description of Project, Scope of Work Performed: _____

Total Construction Cost: _____

Total Change Order Amount: _____

Did Change Orders exceed 10% of original contract sum? _____ If yes, please explain on separate sheet.

Original Scheduled Date of Completion: _____

Time Extensions Granted (number of Days): _____

Actual Date of Completion: _____

Number of Stop Notices filed by Subcontractors or Suppliers: _____

3. Project Name: _____

Location: _____

Owner: _____

Owner Contact (name and phone): _____

Architect/Engineer: _____

Architect/Engineer Contact (name and phone number): _____

Const. Mgr. or Project Mgr. (name and phone number): _____

Description of Project, Scope of Work Performed: _____

Total Construction Cost: _____

Total Change Order Amount: _____

Did Change Orders exceed 10% of original contract sum? _____ If yes, please explain on separate sheet.

Original Scheduled Date of Completion: _____

Time Extensions Granted (number of Days): _____

Actual Date of Completion: _____

Number of Stop Notices filed by Subcontractors or Suppliers: _____

DOCUMENT 00 4519

NON-COLLUSION AFFIDAVIT

PUBLIC CONTRACT CODE §7106

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

STATE OF CALIFORNIA)
) ss.
COUNTY OF _____)

_____, being first duly sworn,
(Name of Principal of Bidder)

deposes and says that he or she is _____
(Office of Affiant)

of _____, the party
(Name of Bidder)

making the foregoing Bid, that the Bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the Bid is genuine and not collusive or sham; that Bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham Bid, and has not directly or indirectly colluded, conspired, connived or agreed with any bidder or anyone else to put in a sham Bid, or that anyone shall refrain from bidding, and that the Bidder has not in any manner, directly or indirectly, sought by agreement, communication or conference with anyone to fix the Bid price of Bidder or any other bidder, or to fix any overhead, profit or cost element of the Bid price, or of that of any other bidder, or to secure any advantage against Owner, or anyone interested in the proposed contract; that all statements contained in the Bid are true; and further, that Bidder has not, directly or indirectly, submitted its Bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, Bid depository, or to any member or agent thereof to effectuate a collusive or sham Bid.

Executed under penalty of perjury under the laws of the State of California:

(Name of Bidder)

(Signature of Principal)

(Name / Title of Principal)

Subscribed and sworn before me _____

This _____ day of _____, 2022

Notary Public of the State of _____

In and for the County of _____

My Commission expires_____

(Seal)

NOTE: If Bidder is a partnership or a joint venture, this affidavit must be signed and sworn to by every member of the partnership or venture.

NOTE: If Bidder [including any partner or venturer of a partnership or joint venture] is a corporation, this affidavit must be signed by the Chairman, President, or Vice President and by the Secretary, Assistant Secretary, Chief Financial Officer, or Assistant Treasurer.

NOTE: If Bidder's affidavit on this form is made outside the State of California, the official position of the person taking such affidavit shall be certified according to law.

END OF DOCUMENT

DOCUMENT 00 4546

BIDDER CERTIFICATIONS

TO BE EXECUTED BY ALL BIDDERS AND SUBMITTED WITH BID

The undersigned Bidder certifies to Owner as set forth in sections 1 through 6 below.

1. STATEMENT OF CONVICTIONS

By my signature hereunder, I hereby swear, under penalty of perjury, that no more than one final, unappealable finding of contempt of court by a Federal Court has been issued against Bidder within the past two years because of failure to comply with an order of a Federal Court or to comply with an order of the National Labor Relations Board.

2. CERTIFICATION OF WORKER'S COMPENSATION INSURANCE

By my signature hereunder, as the Contractor, I certify that I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this Contract.

3. CERTIFICATION OF PREVAILING WAGE RATES AND RECORDS

By my signature hereunder, as the Contractor, I certify that I am aware of the provisions of Section 1773 of the California Labor Code, which requires the payment of prevailing wage on public projects. Also, that the Contractor and any subcontractors under the Contractor shall comply with California Labor Code §1776, regarding wage records, and with California Labor Code §1777.5, regarding the employment and training of apprentices. It is the Contractor's responsibility to ensure compliance by any and all subcontractors performing work under this Contract.

4. CERTIFICATION OF COMPLIANCE WITH PUBLIC WORKS CHAPTER OF LABOR CODE

By my signature hereunder, as the Contractor, I certify that I am aware of Sections 1777.1 and 1777.7 of the California Labor Code and Contractor and Subcontractors and am eligible to bid and work on public works projects. Contractor warrants that it is currently registered with the Department of Industrial Relations and qualified to perform public work consistent with Labor Code section 1725.5. Contractor further warrants that any subcontractors who are subject to Public Contract code section 4104, are registered and qualified to perform public work consistent with Labor Code section 1725.5. No bid will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work. Bidder shall maintain a current DIR registration for the duration of the project.

5. CERTIFICATION OF NOTICE OF COMPLIANCE MONITORING

By my signature hereunder, as the Contractor, I certify that I am aware of Section 1771.4 of the California Labor Code and that this project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

6. CERTIFICATION OF ADEQUACY OF CONTRACT AMOUNT

By my signature hereunder, as the Contractor, pursuant to Labor Code Section 2810(a), I certify that, if awarded the Contract based on the undersigned's Bid, the Contract will include funds sufficient to allow the Contractor to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided. I understand that Owner will be relying on this certification if it awards the Contract to the undersigned.

BIDDER:

(Name of Bidder)

Date: _____

By: _____
(Signature)

Name: _____
(Print Name)

Its: _____
(Title)

END OF DOCUMENT

DOCUMENT 00 5100

NOTICE OF AWARD

Dated _____

TO: _____

ADDRESS: _____

CONTRACT NO.: _____

CONTRACT FOR: The City of Seaside

**Fort Ord Military Reservation Property Deconstruction and Demolition
Project – Phase 1A** in Seaside, California, 93955.

The Contract Sum of your contract is _____

_____ Dollars (\$_____).

1. Two (2) copies of the proposed Contract Documents listed below accompany this Notice of Award.

2. You must comply with the following conditions precedent by **5:00 p.m.** of the **20th Day** following the date of this Notice of Award, that is, by **Thursday, June 16, 2022**.

- a. Deliver to Owner two fully executed counterparts of Document 00 5200 (Agreement). Each copy of Document 00 5200 (Agreement) must bear your original signature on the signature page and your initials on each page.
- b. Deliver to Owner one originals of Document 00 6113.13 (Construction Performance Bond), executed by you and your surety.
- c. Deliver to Owner one originals of Document 00 6113.16 (Construction Labor and Material Payment Bond), executed by you and your surety.
- d. Deliver to Owner original set of the insurance certificates with endorsements required under Document 00 7316 (Supplementary Conditions – Insurance).
- e. Deliver to Owner one original of Document 00 6536 (Guaranty), executed by you.

3. Failure to comply with these conditions within the time specified will entitle Owner to consider your Bid abandoned, to annul this Notice of Award, and to declare your Bid security forfeited.

4. Within 21 Days after you comply with the conditions in Paragraph 2 of this Document 00 5100, Owner will return to you one fully signed counterpart of Document 00 5200 (Agreement) with 2 copies of the Project Manual (including Specifications and Drawings) and 2 sets of full-size Drawings.

5. Before you may start any Work at the Site, you must attend a preconstruction conference and receive a written Notice to Proceed from Owner. The preconstruction conference may be arranged through **Nisha Patel, PE (831) 899-6884**. Questions regarding bonds and insurance and all other inquiries regarding the Project should be directed to **Nisha Patel, PE**.

6. Upon commencement of the Work, you and each of your Subcontractors shall certify and provide Owner copies of payroll records on forms provided by the Division of Labor Standards Enforcement, in accordance with California Labor Code §1776.

OWNER

BY: _____
(Title)

(Print Name)

AUTHORIZED BY CITY OF SEASIDE, MONTEREY COUNTY, CALIFORNIA RESOLUTION:

NO: _____

ADOPTED: _____, 2022

[Copy of Resolution Attached]

END OF DOCUMENT

DOCUMENT 00 5200

AGREEMENT

THIS AGREEMENT, dated this _____ day of [Month], 2022, by and between [Name of Contractor] whose place of business is located at [Address of Contractor] ("Contractor"), and the City of Seaside ("Owner"), acting under and by virtue of the authority vested in Owner by the laws of the State of California.

WHEREAS, Owner, by its Resolution No. [insert number] adopted on the [date] day of [Month, Year] awarded to Contractor the following Contract:

CONTRACT NUMBER ____-____

**Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A
in Seaside, California, 93955**

NOW, THEREFORE, in consideration of the mutual covenants hereinafter set forth, Contractor and Owner agree as follows:

ARTICLE 1 - SCOPE OF WORK OF THE CONTRACT

1.01 Work of the Contract

- A. Contractor shall complete all Work specified in the Contract Documents, in accordance with the Specifications, Drawings, and all other terms and conditions of the Contract Documents (Work).

1.02 Price for Completion of the Work

- A. Owner shall pay Contractor the following Contract Sum <<Amount in Word (\$)>> for completion of Work in accordance with Contract Documents as set forth in Contractor's Bid, attached hereto.

ARTICLE 2 - COMMENCEMENT AND COMPLETION OF WORK

2.01 Commencement of Work

- A. **At time of advertisement, the Notice of Award is expected to be issued on May 27, 2022.**
- B. Contractor shall commence Work on the date established in the Notice to Proceed.
- C. **At time of advertisement, the Notice to Proceed is expected to be issued on June 13, 2022.**
- D. Owner reserves the right to modify or alter the Commencement Date.

2.02 Completion of Work

- A. Contractor shall achieve Substantial Completion of the entire Work within **65 Calendar Days** from the Commencement Date and **15 Calendar Days** following substantial completion to achieve Final Completion.
- B. **At time of advertisement, Substantial Completion is August 16, 2022.**
- C. **At time of advertisement, Final Completion is August 31, 2022.**

ARTICLE 3 - PROJECT REPRESENTATIVES

3.01 Owner's Project Manager

- A. Owner has designated **Jason Caprio, PE, PMP** as its Project Manager to act as Owner's Representative in all matters relating to the Project.
- B. City Manager shall have final authority over all matters pertaining to the Contract Documents and shall have sole authority to modify the Contract Documents on behalf of Owner, to accept work, and to make decisions or actions binding on Owner, and shall have sole signature authority on behalf of Owner.

- C. Owner may assign all or part of the Project Manager's rights, responsibilities and duties to a Construction Manager, or other Owner Representative.

3.02 Owner's Environmental Consultant

- A. **Vista Environmental Consulting** furnished the two (2) Reports related to Hazardous Materials and Soil Remediation and shall have the rights assigned to observe, inspect, and enforce the requirements of those noted Reports.

3.03 Engineer

- A. **Harris & Associates** furnished the Plans and Technical Specifications and shall have the rights assigned to Engineer in the Contract Documents.

ARTICLE 4 - LIQUIDATED DAMAGES FOR DELAY IN COMPLETION OF WORK

4.01 Liquidated Damage Amounts

- A. As liquidated damages for delay Contractor shall pay Owner **Three Thousand Four Hundred Dollars (\$3,400)** for each calendar Day that expires after the time specified herein for Contractor to achieve Substantial Completion of the entire Work, until achieved.
- B. As liquidated damages for delay Contractor shall pay Owner **Three Thousand Four Hundred Dollars (\$3,400)** for each calendar Day that expires after the time specified herein for Contractor to achieve Final Completion of the entire Work, until achieved.

4.02 Scope of Liquidated Damages

- A. Measures of liquidated damages shall apply cumulatively.
- B. Limitations and stipulations regarding liquidated damages are set forth in Document 00 7200 (General Conditions).

ARTICLE 5 - CONTRACT DOCUMENTS

- 5.01** Contract Documents consist of the following documents, including all changes, Addenda, and Modifications thereto:

Document 00 0101	Title Page
Document 00 0110	Table of Contents
Document 00 0115	List of Drawings
Document 0 3132	Geotechnical Data and Existing Conditions
Document 00 5100	Notice of Award
Document 00 5200	Agreement
Document 00 5500	Notice to Proceed
Document 00 6113.13	Construction Performance Bond
Document 00 6113.16	Construction Labor and Material Payment Bond
Document 00 6290	Escrow Agreement for Security Deposits
Document 00 6325	Substitution Request Form
Document 00 6530	Release of Claims
Document 00 6536	Guaranty
Document 00 7200	General Conditions
Document 00 7316	Supplementary Conditions – Insurance and Indemnification
Document 00 9113	Addenda
Document 01 2000 through 31 2323	Technical Specifications
Drawings	
Hazardous Materials Survey Report	
Soil Sampling Report and Soil Remediation Work Plan	

- 5.02** There are no Contract Documents other than those listed above. The Contract Documents may only be amended, modified or supplemented as provided in Document 00 7200 (General Conditions).

ARTICLE 6 - MISCELLANEOUS

- 6.01** Terms and abbreviations used in this Agreement are defined in Document 00 7200 (General Conditions) and Section 01 4200 (References and Definitions) and will have the meaning indicated therein.
- 6.02** It is understood and agreed that in no instance are the persons signing this Agreement for or on behalf of Owner or acting as an employee, agent, or representative of Owner, liable on this Agreement or any of the Contract Documents, or upon any warranty of authority, or otherwise, and it is further understood and agreed that liability of Owner is limited and confined to such liability as authorized or imposed by the Contract Documents or applicable law.
- 6.03** In entering into a public works contract or a subcontract to supply goods, services or materials pursuant to a public works contract, Contractor or Subcontractor offers and agrees to assign to the awarding body all rights, title and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. §15) or under the Cartwright Act (Chapter 2 (commencing with §16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time Owner tenders final payment to Contractor, without further acknowledgment by the parties.
- 6.04** Copies of the general prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Contract, as determined by Director of the State of California Department of Industrial Relations, are deemed included in the Contract Documents and on file at Owner's Office, and shall be made available to any interested party on request. Pursuant to California Labor Code §§ 1860 and 1861, in accordance with the provisions of Section 3700 of the Labor Code, every contractor will be required to secure the payment of compensation to his/her employees. Contractor represents that it is aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that Code, and Contractor shall comply with such provisions before commencing the performance of the Work of the Contract Documents.
- 6.05** During the term of this Agreement, Contractor warrants that it is currently registered with the Department of Industrial Relations and qualified to perform public work consistent with Labor Code section 1725.5. Contractor further warrants that any subcontractors who are subject to Public Contract code section 4104, are registered and qualified to perform public work consistent with Labor Code section 1725.5.
- 6.06** This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
- 6.07** This Agreement and the Contract Documents shall be deemed to have been entered into in the County of Monterey, State of California, and governed in all respects by California law (excluding choice of law rules). The exclusive venue for all disputes or litigation hereunder shall be in the Superior Court for the County of Monterey.

IN WITNESS WHEREOF the parties have executed this Agreement in quadruplicate the day and year first above written.

CONTRACTOR: [CONTRACTOR'S NAME]

OWNER: The City of Seaside

By: _____
(Signature)

By: _____
(Signature)

(Print Name)

(Print Name)

Its: _____
Title (If Corporation: Chairman, President
or Vice President)

(Title)

Attest: _____
City Clerk Signature

By: _____
(Signature)

(Print Name)

(Name)

Its: _____
Title (If Corporation: Secretary, Assistant
Secretary, Chief Financial Officer or
Assistant Treasurer)

END OF DOCUMENT

DOCUMENT 00 5500

NOTICE TO PROCEED

Dated: _____, 2022

To: _____
(Contractor)

Address: _____

CONTRACT FOR: The City of Seaside, **Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A** located in Seaside, California, 93955

CONTRACT NO: <<XX>>

You are notified that the Contract Time under the above Contract will commence to run on _____ . On that date, you are to start performing your obligations with respect to Work at the Site under the Contract Documents. In accordance with Article 2 of Document 00 5200 (Agreement), the dates of Substantial Completion and Final Completion for the entire Work are _____, and _____, respectively.

Before you may start any Work at the Site, you must:

1. Submit certified Safety Program/Plan and related information;
2. Water Pollution Control Plan;
3. Injury Illness Prevention Plan;
4. Testing and Evaluation Programs (Air, Soil, Water Quality); and
5. Sampling, Handling, Testing, and Disposal of Debris.

OWNER

By: _____

Its: _____

END OF DOCUMENT

DOCUMENT 00 6113.13

CONSTRUCTION PERFORMANCE BOND

KNOW ALL PERSONS BY THESE PRESENTS:

- 1.01** THAT WHEREAS, City of Seaside (Owner"), a municipality incorporated under the laws of the State of California, has awarded to (Name of Contractor) _____ as Principal, Contract Number _____, dated the ____ day of _____, 2022 (the "Contract"), titled **Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A** in the amount of \$ _____, which Contract is by this reference made a part hereof, for the work of the following Contract:

Project Description: This project includes the work to furnish any and all plant, labor, services, material, tools, equipment, supplies, transportation, utilities, skills, and all other items and facilities necessary for the construction completion of the Fort Ord Military Reservation Property Deconstruction and Demolition Project. The Work generally consists of deconstruction, demolition, removal, and proper disposal of all buildings, structures, parking lots, improvements, and select trees, shrubs, bushes, and vegetation at three (3) individual locations: (1) the Visitor Center (2,100 feet² building/structure) and adjacent parking lot (25,392 feet²), (2) the Fast-Food Restaurant (3,500 feet² building/structure) and adjacent parking lot (56,735 feet²), and (3) the Chapel (6,900 feet² building/structure) and adjacent parking lot (33,359 feet²). The deconstruction and demolition work shall include removal and disposal of the subject structures in their entirety to include roof structures, exterior walls, interior walls, concrete slabs and foundations, windows, doors, plumbing, mechanical, communications, and electrical systems. The site work includes removal and disposal of asphalt concrete parking lots, concrete, retaining walls, steps, excavation and backfill/fill, disconnection, capping, removal, and disposal of water, wastewater, gas, and electrical utilities, and rough grading for mitigating safety concerns and facilitating drainage.

- 1.02** AND WHEREAS, Principal is required to furnish a bond in connection with the Contract, guaranteeing the faithful performance thereof;
- 1.03** NOW, THEREFORE, we, the undersigned Principal and <<Name of Surety>> _____ as Surety are held and firmly bound unto Owner in the sum of 100% OF THE CONTRACT PRICE to be paid to Owner or its successors and assigns; for which payment, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.
- 1.04** THE CONDITION OF THIS OBLIGATION IS SUCH, that if Principal, or its heirs, executors, administrators, successors, or assigns approved by Owner, shall promptly and faithfully perform the covenants, conditions, and agreements of the Contract during the original term and any extensions thereof as may be granted by Owner, with or without notice to Surety, and during the period of any guarantees or warranties required under the Contract, and shall also promptly and faithfully perform all the covenants, conditions, and agreements of any alteration of the Contract made as therein provided, notice of which alterations to Surety being hereby waived, on Principal's part to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify, defend, protect, and hold harmless Owner as stipulated in the Contract, then this obligation shall become and be null and void; otherwise it shall be and remain in full force and effect.
- 1.05** No extension of time, change, alteration, modification, or addition to the Contract, or of the work required thereunder, or work or actions by Owner to mitigate the damages resulting from any breach in performance by Contractor, shall release or exonerate Surety on this bond or in any

way affect the obligation of this bond; and Surety does hereby waive notice of any such extension of time, change, alteration, modification, or addition.

- 1.06** Whenever Principal shall be and declared by Owner in default under the Contract, Surety shall promptly remedy the default, or shall promptly, and in no event later than thirty (30) days from notice:
- A. Undertake through its agents or independent contractors (but having qualifications and experience reasonably acceptable to Owner), to complete the Contract in accordance with its terms and conditions and to pay and perform all obligations of Principal under the Contract, including without limitation, all obligations with respect to warranties, guarantees, indemnities, and the payment of liquidated damages; or
 - B. Obtain a bid or bids for completing the Contract in accordance with its terms and conditions, and, upon determination by Owner of the lowest responsible bidder, arrange for a contract between such bidder and Owner and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the Contract Sum, and to pay and perform all obligations of Principal under the Contract, including, without limitation, all obligations with respect to warranties, guarantees, and the payment of liquidated damages; but, in any event, Surety's total obligations hereunder shall not exceed the amount set forth in the third paragraph hereof. The term "balance of the Contract Sum," as used in this paragraph, shall mean the total amount payable by Owner to the Principal under the Contract and any amendments thereto, less the amount paid by Owner to Principal.
- 1.07** Surety's obligations hereunder are independent of the obligations of any other surety for the performance of the Contract, and suit may be brought against Surety and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing Owner's rights against the others.
- 1.08** Surety may not use Contractor to complete the Contract absent Owner's Consent. Owner shall have the right in its sole discretion to continue the work of the Contract, as necessary following a default and/or termination, as necessary to prevent risks of personal injury, property damage or delay to the Project.
- 1.09** No right of action shall accrue on this bond to or for the use of any person or corporation other than Owner or its successors or assigns.
- 1.10** Surety shall join in any proceedings brought under the Contract upon Owner's demand and shall be bound by any judgment.
- 1.11** Correspondence or claims relating to this bond shall be sent to Surety at the address set forth below.

IN WITNESS WHEREOF, we have hereunto set our hands this _____ day of _____, 2022.

CONTRACTOR AS PRINCIPAL

SURETY

Company: _____ (Corp. Seal)

Company: _____ (Corp. Seal)

Signature: _____

Signature: _____

Name and Title: _____

Name and Title: _____

Address: _____

Address: _____

END OF DOCUMENT

DOCUMENT 00 6113.16

CONSTRUCTION LABOR AND MATERIAL PAYMENT BOND

KNOW ALL PERSONS BY THESE PRESENTS:

1.01 THAT WHEREAS, City of Seaside ("Owner") has awarded to <<(Name of Contractor)>> _____ as Principal, Contract Number _____ dated the _____ day of _____, 2022 (the "Contract"), titled **Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A** in the amount of \$_____, which Contract is by this reference made a part hereof, for the work of the following Contract:

Project Description: This Project includes the work to furnish all labor, services, material, tools, equipment, supplies, transportation, utilities, skills, and all other items and facilities necessary for the completion of the Fort Ord Military Reservation Property Deconstruction and Demolition Project. The Work generally consists of decontamination, deconstruction, demolition, removal, and proper disposal of all buildings, structures, parking lots, improvements, and select trees, shrubs, bushes, and vegetation at the Visitor Center (2,100 feet² building/structure) and adjacent parking lot (25,392 feet²). The deconstruction and demolition work shall include removal and disposal of the subject structures in their entirety to include roof structures, exterior walls, interior walls, concrete slabs and foundations, windows, doors, plumbing, mechanical, communications, and electrical systems. The site work includes removal and disposal of asphalt concrete parking lots, concrete, retaining walls, steps, excavation and backfill/fill, disconnection, capping, removal, and disposal of water, wastewater, gas, and electrical utilities, and rough grading for mitigating safety concerns and facilitating drainage.

The Work includes hazardous materials removal and proper disposal, including asbestos, lead-based paint and/or materials, lead-containing paint, universal waste, suspect polychlorinated biphenyls (PCBs), and other hazardous materials. The Visitor Center and Project footprint also includes asbestos cement pipe (ACP) on-site and below-grade. Lastly, the Work includes soil sampling and soil remediation, which is contains arsenic, hexavalent chrome, cobalt, and lead, and must be properly excavated, isolated, stockpiled, characterized (waste), and removed and disposed of at an appropriate facility.

1.02 AND WHEREAS, Principal is required to furnish a bond in connection with the Contract to secure the payment of claims of laborers, mechanics, material suppliers, and other persons as provided by law;

1.03 NOW, THEREFORE, we, the undersigned Principal and (Name of Surety) _____, as Surety, are held and firmly bound unto Owner in the sum of 100% OF THE CONTRACT PRICE (\$ _____), for which payment well and truly to be made we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

1.04 THE CONDITION OF THIS OBLIGATION IS SUCH, that if Principal, or its executors, administrators, successors, or assigns approved by Owner, or its subcontractors shall fail to pay any of the persons named in California Civil Code §9100, or amounts due under the State of California Unemployment Insurance Code with respect to work or labor performed under the Contract, or for any amounts required to be deducted, withheld, and paid over to the State of California Employment Development Department from the wages of employees of Principal and subcontractors pursuant to Section 13020 of the State of California Unemployment Insurance Code with respect to such work and labor, that Surety will pay for the same in an amount not

exceeding the sum specified in this bond, plus reasonable attorneys' fees, otherwise the above obligation shall become and be null and void.

- 1.05** This bond shall inure to the benefit of any of the persons named in California Civil Code §9100, as to give a right of action to such persons or their assigns in any suit brought upon this bond. The intent of this bond is to comply with the California Mechanic's Lien Law.
- 1.06** Surety, for value received, hereby expressly agrees that no extension of time, change, modification, alteration, or addition to the undertakings, covenants, terms, conditions, and agreements of the Contract, or to the work to be performed thereunder, shall in any way affect the obligation of this bond; and it does hereby waive notice of any such extension of time, change, modification, alteration, or addition to the undertakings, covenants, terms, conditions, and agreements of the Contract, or to the work to be performed thereunder.
- 1.07** Surety's obligations hereunder are independent of the obligations of any other surety for the payment of claims of laborers, mechanics, material suppliers, and other persons in connection with Contract; and suit may be brought against Surety and such other sureties, jointly and severally, or against any one or more of them, or against less than all of them without impairing Owner's rights against the other.
- 1.08** Correspondence or claims relating to this bond shall be sent to Surety at the address set forth below.

IN WITNESS WHEREOF, we have hereunto set our hands this ____ day of _____, 2022.

CONTRACTOR AS PRINCIPAL

Company: (Corp. Seal)

Signature

Name

Title

Street Address

City, State, Zip Code

SURETY

Company: (Corp. Seal)

Signature

Name

Title

Street Address

City, State, Zip Code

END OF DOCUMENT

DOCUMENT 00 6290

ESCROW AGREEMENT FOR SECURITY DEPOSIT IN LIEU OF RETENTION

California Public Contract Code §22300

THIS ESCROW AGREEMENT ("Escrow Agreement") is made and entered into this ____ day of _____, 2022, by and between the City of Seaside, ("Owner"), whose address is 440 Harcourt Avenue, Seaside CA 93955, (Name of Contractor) _____ ("Contractor"), whose place of business is located at (Contractor's Address) _____, and [] Owner, as escrow agent OR [] (Name of Bank) _____, a state or federally chartered bank in the State of California, whose place of business is located at _____ ("Escrow Agent").

For the consideration hereinafter set forth, Owner, Contractor and Escrow Agent agree as follows:

1. Pursuant to California Public Contract Code §22300, Contractor has the option to deposit securities with Escrow Agent as a substitute for retention earnings required to be withheld by Owner pursuant to Contract Number _____ entered into between Owner and Contractor for the **Fort Ord Military Reservation Deconstruction and Demolition Project – Phase 1A** located in SEASIDE, CA, 93955, in the amount of \$_____ dated _____, 2022 (the "Contract"). Alternatively, on written request of Contractor, Owner shall make payments of the retention earnings directly to Escrow Agent. When Contractor deposits the securities as a substitute for Contract earnings, Escrow Agent shall notify Owner within ten Days of the deposit. The market value of the securities at the time of substitution shall be at least equal to the cash amount then required to be withheld as retention under terms of Contract between Owner and Contractor. Securities shall be held in name of _____, and shall designate Contractor as the beneficial owner.
2. Owner shall make progress payments to Contractor for those funds which otherwise would be withheld from progress payments pursuant to Contract provisions, provided that Escrow Agent holds securities in form and amount specified in Paragraph 1 of this Document 00 6290.
3. When Owner makes payment(s) of retention earned directly to Escrow Agent, Escrow Agent shall hold said payment(s) for the benefit of Contractor until the time that the escrow created under this Escrow Agreement is terminated. Contractor may direct the investment of the payments into securities. All terms and conditions of this Escrow Agreement and the rights and responsibilities of the parties shall be equally applicable and binding when Owner pays Escrow Agent directly.
4. Contractor shall be responsible for paying all fees for the expenses incurred by Escrow Agent in administering the Escrow Account, and all expenses of Owner. Such expenses and payment terms shall be determined by Owner, Contractor, and Escrow Agent.
5. Interest earned on securities or money market accounts held in escrow and all interest earned on that interest shall be for sole account of Contractor and shall be subject to withdrawal by Contractor at any time and from time to time without notice to Owner.
6. Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from Owner to Escrow Agent that Owner consents to withdrawal of amount sought to be withdrawn by Contractor.
7. Owner shall have the right to draw upon the securities in event of default by Contractor. Upon seven Days written notice to Escrow Agent from Owner of the default, Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by Owner.

8. Upon receipt of written notification from Owner certifying that the Contract is final and complete, and that Contractor has complied with all requirements and procedures applicable to the Contract, Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.
9. Escrow Agent shall rely on written notifications from Owner and Contractor pursuant to Paragraphs 5 through 8, inclusive, of this Document 00 6290 and Owner and Contractor shall hold Escrow Agent harmless from Escrow Agent's release and disbursement of securities and interest as set forth.
10. Names of persons who are authorized to give written notice or to receive written notice on behalf of Owner and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are set forth below. Either Owner or Contractor may change the names of the person they each authorize to give notice under this Escrow Agreement by providing written notice to the other of such change, along with an exemplar of the person's signature.

ON BEHALF OF OWNER:

ON BEHALF OF CONTRACTOR:

Title

Name

Signature

Address

City/State/Zip Code

Title

Name

Signature

Address

City/State/Zip Code

ON BEHALF OF ESCROW AGENT:

Title

Name

Signature

Address

City/State/Zip Code

IN WITNESS WHEREOF, the parties have executed this Escrow Agreement by their proper officers on the date first set forth above.

OWNER

CONTRACTOR

Title

Name

Title

Name

Escrow Agreement for Security
Deposit in Lieu of Retention

00 6290 - 2

City of Seaside
Fort Ord Military Reservation Property
Deconstruction and Demolition Project
Phase 1A

Signature

Signature

ATTEST

Signature

Print Name

City Clerk

ESCROW AGENT

Title

Print Name

Signature

REVIEWED AS TO FORM:

Counsel for Owner

Print Name

Date

At the time the Escrow Account is opened, Owner and Contractor shall deliver to Escrow Agent a fully executed counterpart of this Document 00 6290.

END OF DOCUMENT

DOCUMENT 00 6325

SUBSTITUTION REQUEST FORM

To: The City of Seaside, Owner

(831) 899-6825

PROJECT:	Contractor:
Owner Project No:	

Substitution Request By:	Firm:
--------------------------	-------

Transmittal Record	Attn:	Firm:	Date Sent:	Date Rec'd:	Date Due:
Contractor to Owner					
Contractor to Architect					
Owner / Architect to Consultant					
Architect to Owner Representative					
Owner Representative to Contractor					

We hereby submit for your consideration the following product instead of the specified item for the Project:

Section / Drawing	Article	Specified Item
Proposed Substitution:		

We have (a) attached manufacturer's literature, including complete technical data and laboratory test results, if applicable, (b) attached an explanation of why proposed substitution is a true equivalent to specified item, (c) included complete information on changes to Contract Documents that the proposed substitution will require for its proper installation, and (d) filled in the blanks below:

Contractor to complete questions that follow and certifies to the accuracy of all answers:

A.	Does the substitution affect dimensions shown on Drawings? Yes ___ / No ___. If No, please explain proposed mitigation and why substitution is equivalent to originally specified item:
B.	Will the undersigned pay for changes to the building design, including engineering and detailing costs caused by the requested substitution? Yes ___ / No ___. If No, please state reasons explain why substitution is equivalent to originally specified item:
C.	What effect does the substitution have on other trades? No effect: ___ / Some effect ___. If substitution will affect other trades, please explain the effect and why substitution is equivalent to originally specified item:
D.	Will substitution cause change to Project Schedule, or to critical delivery dates? Add? Shorten? If the substitution will add to schedule dates or affect critical activities, please explain why substitution is equivalent to originally specified item:
E.	Please describe differences between proposed substitution and specified item? Please explain and identify any and all differences, and please explain why substitution is equivalent to originally specified item:
F.	What is the Cost Differential to Contractor in original specified item and proposed substitution including all mark-ups? [If substitution requested during bid period, skip this question.]

G.	Are Manufacturer's guarantees for the proposed item the same as for item specified? Yes ____; No _____. If No, please explain why substitution is equivalent to originally specified item:
H.	Contractor accepts full responsibility for delays caused by redesign of other items of the Work necessitated by substitution? Yes ___ / No ___. If No, please state reasons and explain why substitution is equivalent to originally specified item:
I.	Contractor states that the function, appearance and quality are equivalent or superior to the specified item? Yes ___ / No ___. If No, please explain why substitution is equivalent to originally specified item:

We certify that the function, appearance, and quality of the proposed substitution are equivalent or superior to those of the specified item, except as we may specifically state otherwise in this request.

Submitted by: _____ Signature: _____

Firm: _____ Date: _____

Address: _____ Phone/ Fax: _____

Remarks: _____

Consultant Response: ☐ Accepted ☐ Not Accepted ☐ Accepted As Noted ☐ Received Too Late	Owner Representative Response: ☐ Accepted ☐ Not Accepted ☐ Accepted As Noted ☐ Received Too Late
Remarks: _____ _____	Remarks: _____ _____

By: _____

By: _____

END OF DOCUMENT

DOCUMENT 00 6530

AGREEMENT AND RELEASE OF ANY AND ALL CLAIMS
[Public Code § 7100]

THIS AGREEMENT AND RELEASE OF ANY AND ALL CLAIMS ("Agreement and Release"), made and entered into this [**date**] day of [**Month**], [**Year**], by and between the City of Seaside ("Owner"), and [**Name of Contractor**] ("Contractor"), whose place of business is at [**Address of Contractor**].

RECITALS

- A. Owner and Contractor entered into Contract Number [**AGxx.xxx**] (the "Contract") for Fort Ord Military Reservation Property Deconstruction and Demolition Project Phase 1A located in Seaside, CA.
- B. The Work under the Contract has been completed.

AGREEMENT

NOW THEREFORE, it is mutually agreed between Owner and Contractor as follows:

- 1. Contractor will not be assessed liquidated damages except as detailed below:

Original Contract Sum	\$ _____
Modified Contract Sum	\$ _____
Payment to Date	\$ _____
Liquidated Damages	\$ _____
Payment Due to Contractor	\$ _____

- 2. Subject to the provisions of this Agreement and Release, Owner with forthwith pay to Contractor the sum of [\$ _____ dollars and _____ Cents (\$ _____)] under the Contract, less any amounts withheld under the Contract or represented by any Notice to Withhold Funds on file with Owner as of the date of such payment.
- 3. Contractor acknowledges and hereby agrees that there are no unresolved or outstanding claims in dispute against Owner arising from the Contract, except for the claims described in Paragraph 4 of this Document 00 6530. It is the intention of the parties in executing this Agreement and Release that this Agreement and Release shall be effective as a full, final and general release of all claims, demands, actions, causes of action, obligations, costs, expenses, damages, losses and liabilities of Contractor against Owner, and all of its agents, employees, consultants, inspectors, representatives, assignees and transferees, except for the Disputed Claims set forth in Paragraph 4 of this Document 00 6530. Nothing in this Agreement and Release shall limit or modify Contractor's continuing obligations described in Paragraph 6 of this Document 00 6530.
- 4. The following claims submitted under Document 00 7200 (General Conditions), Article 12,

Agreement and Release of
Any and All Claims

00 6530 - 1

City of Seaside
Fort Ord Military Reservation Property
Deconstruction and Demolition Project
Phase 1A

are disputed (hereinafter, the "Disputed Claims") and are specifically excluded from the operation of this Agreement and Release.

[insert information in Chart Below, affix attachments if necessary]

Claim No.	Date Submitted	Description of Claim	Amount of Claim

5. Consistent with California Public Contract Code §710, Contractor hereby agrees that, in consideration of payment set forth in Paragraph 2 of this Document 00 6530, Contractor hereby releases and forever discharges Owner, and all of its agents, employees, consultants, inspectors, assignees and transferees from any and all liability, claims, demands, actions or causes of action of whatever kind or nature arising out of or in any way concerned with the Work under the Contract.
6. Guarantees and warranties for the Work, and any other continuing obligation of Contractor, shall remain in full force and effect as specified in the Contract Documents.
7. Contractor shall immediately defend, indemnify and hold harmless Owner, and of the Owner's representatives, Project Manager, and all of their agents, employees, consultants, inspectors, assignees and transferees, from any and all claims, demands, actions, causes of action, obligations, costs, expenses, damages, losses and liabilities that may be asserted against them by any of Contractor's suppliers and/or Subcontractors of any tier and/or any suppliers to them for any and all labor, materials, supplies and equipment used, or contemplated to be used in the performance of the Contract, except for the Disputed Claims set forth in Paragraph 4 of this Document 00 6530.
8. Contractor hereby waives the provisions of California Civil Code §1542, which provide as follows:

A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS OR HER FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM OR HER, MUST HAVE MATERIALLY AFFECTED HIS OR HER SETTLEMENT WITH THE DEBTOR.

9. The provisions of this Agreement and Release are contractual in nature and not mere recitals and shall be considered independent and severable, and if any such provision or any part thereof shall be at any time held invalid in whole or in part under any federal, state, county, municipal or other law, ruling, or regulation, then such provision, or part thereof shall remain in force and effect only to the extent permitted by law, and the remaining provisions of this Agreement and Release shall also remain in full force and effect, and shall be enforceable.
10. Contractor represents and warrants that it is the true and lawful owner of all claims and other matters released pursuant to this Agreement and Release, and that it has full right, title and authority to enter into this instrument. Each party represents and warrants that it

Agreement and Release of
Any and All Claims

00 6530 - 2

City of Seaside
Fort Ord Military Reservation Property
Deconstruction and Demolition Project
Phase 1A

has been represented by counsel of its own choosing in connection with this Agreement and Release.

11. All rights of Owner shall survive completion of the Work or termination of the Contract, and execution of this Agreement and Release.

CONTRACTOR: [CONTRACTOR'S NAME]

By: _____
(Signature)

Its: _____
Title (If Corporation: Chairman, President
or Vice President)

OWNER: The City of Seaside

By: _____
(Signature)

(Print Name)

(Title)

By: _____
(Signature)

Its: _____
Title (If Corporation: Secretary, Assistant
Secretary, Chief Financial Officer or
Assistant Treasurer)

DOCUMENT 00 6536

GUARANTY

TO: The City of Seaside ("Owner"), for construction of **Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A** located in Seaside, California.

The undersigned guarantees all construction performed on this Project and also guarantees all material and equipment incorporated therein in addition to submitting to Owner a Surety Bond in a sum equal to one hundred percent of the Contract price, prior to the date of recording the notice of completion.

Contractor hereby grants to Owner for a period of one year following the date of Final Acceptance of the Work completed, or such longer period specified in the Contract Documents, its unconditional warranty of the quality and adequacy of all of the Work including, without limitation, all labor, materials and equipment provided by Contractor and its Subcontractors of all tiers in connection with the Work.

Neither final payment nor use nor occupancy of the Work performed by the Contractor shall constitute an acceptance of Work not done in accordance with this Guaranty or relieve Contractor of liability in respect to any express warranties or responsibilities for faulty materials or workmanship. Contractor shall remedy any defects in the Work and pay for any damage resulting therefrom, which shall appear within one year, or longer if specified, from the date of Final Acceptance of the Work completed.

If within one year after the date of Final Acceptance of the Work completed, or such longer period of time as may be prescribed by laws or regulations, or by the terms of Contract Documents, any Work is found to be Defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions, correct such Defective Work. Contractor shall remove any Defective Work rejected by Owner and replace it with Work that is not Defective, and satisfactorily correct or remove and replace any damage to other Work or the work of others resulting therefrom. If Contractor fails to promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the Defective Work corrected or the rejected Work removed and replaced. Contractor shall pay for all claims, costs, losses and damages caused by or resulting from such removal and replacement. Where Contractor fails to correct Defective Work, or defects are discovered outside the correction period, Owner shall have all rights and remedies granted by law.

Inspection of the Work shall not relieve Contractor of any of its obligations under the Contract Documents. Even though equipment, materials, or Work required to be provided under the Contract Documents have been inspected, accepted, and estimated for payment, Contractor shall, at its own expense, replace or repair any such equipment, material, or Work found to be Defective or otherwise not to comply with the requirements of the Contract Documents up to the end of the guaranty period.

All abbreviations and definitions of terms used in this Agreement shall have the meanings set forth in the Contract Documents.

The foregoing Guaranty is in addition to any other warranties of Contractor contained in the Contract Documents, and not in lieu of, any and all other liability imposed on Contractor under the Contract Documents and at law with respect to Contractor's duties, obligations, and performance under the Contract Documents. In the event of any conflict or inconsistency between the terms of this Guaranty and any warranty or obligation of the Contractor under the Contract Documents or at law, such inconsistency or conflict shall be resolved in favor of the higher level of obligation of the Contractor.

Date: _____, 2022

Contractor's name

By: _____
Signature

Print Name

Title

Street Address

City, State, Zip code

END OF DOCUMENT

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GENERAL CONDITIONS

ARTICLE 1 - INTERPRETATION OF CONTRACT DOCUMENTS

1.01 Interpretation Of Documents

- A. Contract Documents are complementary; what is called for by one is as binding as if called for by all.
- B. Individual Contract Documents subdivide at first level into Articles, and then into paragraphs.

1.02 Order Of Precedence Of Documents

- A. In the case of discrepancy or ambiguity in the Contract Documents, the following order of precedence shall prevail:
 - 1. Modifications in inverse chronological order (i.e., most recent first), and in the same order as specific portions they are modifying;
 - 2. Agreement Forms (Document 00 5200), and terms and conditions referenced therein;
 - 3. Supplementary General Conditions (Document 00 7201 et seq), if included;
 - 4. General Conditions (Document 00 7200);
 - 5. Division 1 Specifications, if included;
 - 6. Drawings and Technical Specifications (Division 2 and above);
 - 7. Written numbers over figures, unless obviously incorrect;
 - 8. Figured dimensions over scaled dimensions;
 - 9. Large-scale Drawings over small-scale Drawings.
- B. Any conflict between Drawings and Technical Specifications (Division 2 and above) will be resolved in favor of the document of the latest date (i.e., the most recent document), and if the dates are the same or not determinable, then in favor of Specifications.
- C. Any conflict between a bill or list of materials shown in the Contract Documents and the actual quantities required to complete Work required by Contract Documents, will be resolved in favor of the actual quantities.
- D. All Technical Specifications included in the Project manual shall be included within the Contract Documents unless identified otherwise.

ARTICLE 2 - PRE-BID INVESTIGATIONS

2.01 Pre-Bid Investigations Required

- A. Prior to and as a condition of submitting a Bid and executing Document 00 5200 (Agreement), Contractor shall make reasonable efforts to investigate fully the Work of the Contract. Contractor shall visit the Site, examine thoroughly and understand fully the nature and extent of the Contract Documents, Work, Site, locality, actual conditions and as-built conditions.
- B. Contractor's investigation shall include, without limitation, requesting and thoroughly examining of all reports of exploration and tests of subsurface conditions, as-built drawings, drawings, product specification(s) or reports, made available by Owner for contracting purposes or during Contractor's pre-bid investigations, of existing above ground and (to the extent applicable) below ground conditions (together, "Existing Conditions Data"), including, as applicable, Underground Facilities, geotechnical data, as-built data, utility surveys, record documents of all types, hazardous materials surveys, or similar materials which may appear or be referenced in the Project Manual or the in the Contract Documents, and all local conditions, and federal, state and local laws and regulations that in any manner may affect cost, progress, performance or furnishing of Work or which relate to any aspect of the means, methods, techniques, sequences or procedures of construction to be employed by Contractor and safety precautions and programs incident thereto.
- C. Contractor's investigations shall consider fully the fact that Existing Conditions Data is in many cases based on information furnished to Owner by others (e.g., the prior owner or builders), and that due to their age or their chain of custody since preparation, may not meet current industry standards for accuracy. Contractor shall also: (i.) provide Owner with prompt written notice of all

conflicts, errors, ambiguities, or discrepancies of any type, that it discovered in or among the Contract Documents and the Existing Conditions Data, and (ii.) subject to Owner's approval, conduct any such additional or supplementary examinations, investigations, explorations, tests, studies and data compilations, concerning conditions (surface, subsurface, and Underground Facilities) at or contiguous to the Site or otherwise, which Contractor may deem necessary in order to perform and furnish the Work in accordance with the terms and conditions of Contract Documents.

- D. During performance of the Contract, Contractor will be charged with knowledge of all information that it should have learned in performing these pre-bid investigations and other obligations, and shall not be entitled to Change Orders (time or compensation) due to any information, error, inconsistency, omission, or conditions that Contractor should have known as a part of this Work. Contractor shall be responsible for the resultant losses, including, without limitation, the cost of correcting Defective Work.

2.02 Limited Reliance Permitted On Owner's Existing Conditions Data

- A. Regarding aboveground and as-built conditions shown on the Contract Documents or supplied by Owner, such information has been compiled in good faith, however, Owner does not expressly or impliedly warrant or represent that such information is correctly shown or indicated, or otherwise complete for construction purposes. Contractor must independently verify such information as part of its pre-bid investigations, and where conditions are not reasonably verifiable or discrepancies are identified, bring such matters to Owner's attention through written question issued during the bid period. In executing Document 00 5200 (Agreement), Contractor shall rely on the results of its own independent investigation and shall not rely on Owner-supplied information regarding aboveground conditions and as-built conditions, and Contractor shall accept full responsibility for its verification work sufficient to complete the Work as intended.
- B. Regarding subsurface conditions other than Underground Facilities shown on the Contract Documents or otherwise supplied by Owner, Contractor may rely only upon the general accuracy of actual reported depths, actual reported character of materials, actual reported soil types, actual reported water conditions, or actual obstructions shown or indicated in the Contract Documents. Owner is not responsible for the completeness of any subsurface condition information, Contractor's conclusions or opinions drawn from any subsurface condition information, or subsurface conditions that are not specifically shown. (For example, Owner is not responsible for soil conditions in areas contiguous to areas where a subsurface condition is shown.)

2.03 Pre-Bid Investigation Requirements For Excavation And Utilities Relocation Projects

- A. As part of its pre-bid investigations for Projects involving excavation and/or relocation of existing utilities, Contractor shall make reasonable efforts to verify information regarding Underground Facilities, including but not limited to, requesting additional information or verification of information as necessary.
- B. Because of the nature and location of Owner and the Project, the existence of Underground Facilities is deemed inherent in the Work of the Contract, as is the fact that Underground Facilities are not always accurately shown or completely shown on as-built records, both as to their depth and location. Contractor shall, therefore, take care to note the existence and potential existence of Underground Facilities, in particular, above and below grade structures, drainage lines, storm drains, sewers, water, gas, electrical, chemical, hot water, and other similar items and utilities. Contractor shall carefully consider all supplied information, request additional information Contractor may deem necessary, and visually inspect the Site for above ground indications of Underground Facilities (such as, for example not by way of limitation, the existence of existing service laterals, appurtenances or other types of utilities, indicated by the presence of an underground transmission main or other visible facilities, such as buildings, new asphalt, meters and junction boxes, on or adjacent to the Site). Contractor shall also consider local underground conditions and typical practices for Underground Facilities, either through its own direct knowledge or through its subcontractors, and fully consider this knowledge in assessing the existing information and the reasonableness of its reliance.

ARTICLE 3 - SUBCONTRACTORS

3.01 Subcontractor Listing Law

- A. Contractor shall comply with the Subcontractor Listing law, California Public Contract Code §§4101 et seq. Contractor shall not substitute any other person or firm in place of any Subcontractor listed in the Bid except as may be allowed by law.
- B. Subcontractors shall not assign or transfer their subcontracts or permit them to be performed by any other contractor without Owner's written approval. At Owner's request, Contractor shall provide Owner with a complete copy of all executed subcontracts or final commercial agreements with Subcontractors and/or suppliers.

3.02 Subcontracts

- A. Subcontract agreements shall preserve and protect the rights of Owner under the Contract Documents so that subcontracting will not prejudice such rights. To the extent of the Work to be performed by a Subcontractor, Contractor shall require the Subcontractor's written agreement (1) to be bound to the terms of Contract Documents and (2) to assume vis-à-vis Contractor all the obligations and responsibilities that Contractor assumes toward Owner under the Contract Documents. (These agreements include for example, and not by way of limitation, all warranties, claims procedures and rules governing submittals of all types to which Contractor is subject under the Contract Documents.)
- B. Contractor shall provide for the assignment to Owner of all rights any Subcontractor (of any tier) may have against any manufacturer, supplier, or distributor for breach of warranties and guarantees relating to the Work performed by the Subcontractor under the Contract Documents. Subcontracts shall provide and acknowledge Owner as an intended third-party beneficiary of each subcontract and supply contract (of any tier).

ARTICLE 4 - DRAWINGS AND SPECIFICATIONS

4.01 Intent Of Drawings And Specifications

- A. Contractor shall interpret words or phrases used to describe Work (including services), materials, or equipment that have well-known technical or construction industry or trade meaning in accordance with that meaning. Drawings' intent specifically includes the intent to depict construction that complies with all applicable laws, codes and standards.
- B. As part of the "Work," Contractor shall provide all labor, materials, equipment, machinery, tools, facilities, services, employee training and testing, hoisting facilities, Shop Drawings, storage, testing, security, transportation, disposal, the securing of all necessary or required field dimensions, the cutting or patching of existing materials, notices, permits, documents, reports, agreements and any other items required or necessary to timely and fully complete Work described and the results intended by Contract Documents and, in particular, Drawings and Specifications. Divisions and Specification Sections and the identification on any Drawings shall not control Contractor in dividing Work among Subcontractors or suppliers or delineating the Work to be performed by any specific trade.
- C. Contractor shall perform reasonably implied parts of Work as "incidental work" although absent from Drawings and Specifications. Incidental work includes any work not shown on Drawings or described in Specifications that is necessary or normally or customarily required as a part of the Work shown on Drawings or described in Specifications. Incidental work includes any work necessary or required to make each installation satisfactory, legally operable, functional, and consistent with the intent of Drawings and Specifications or the requirements of Contract Documents. Contractor shall perform incidental work without extra cost to Owner. Incidental work shall be treated as if fully described in Specifications and shown on Drawings, and the expense of incidental work shall be included in price Bid and Contract Sum.

4.02 Checking Of Drawings And Specifications

- A. Before undertaking each part of Work, Contractor shall carefully study and compare Contract Documents and check and verify pertinent figures shown in the Contract Documents and all applicable field measurements. Contractor shall be responsible for any errors that might have been avoided by such comparison. Figures shown on Drawings shall be followed; Contractor shall not scale measurements. Contractor shall promptly report to Owner, in writing, any conflict, error, ambiguity or discrepancy that Contractor may discover. Contractor shall obtain a written interpretation or clarification from Owner before proceeding with any Work affected thereby. Contractor shall provide Owner with a follow-up correspondence every ten Days until it receives a satisfactory interpretation or clarification.

4.03 Interpretation Of Drawings And Specifications

- A. A typical or representative detail on Drawings shall constitute the standard for workmanship and material throughout corresponding parts of Work. Where necessary, and where reasonably inferable from Drawings, Contractor shall adapt such representative detail for application to such corresponding parts of Work. The details of such adaptation shall be subject to prior approval by Owner. Repetitive features shown in outline on Drawings shall be in exact accordance with corresponding features completely shown.
- B. Should any discrepancy appear or any misunderstanding arise as to the import of anything contained in Drawings and Specifications, or should Contractor have any questions or requests relating to Drawings or Specifications, Contractor shall refer the matter to Owner, in writing, with a copy to the Architect/Engineer. Owner will issue with reasonable promptness written responses, clarifications or interpretations as Owner may determine necessary, which shall be consistent with the intent of and be reasonably inferable from Contract Documents. Such written clarifications or interpretations shall be binding upon Contractor. If Contractor believes that a written response, clarification or interpretation justifies an adjustment in the Contract Sum or Contract Time, Contractor shall give Owner prompt written notice. If the parties are unable to agree to the amount or extent of the adjustment, if any, then Contractor shall perform the Work in conformance with Owner's response, clarification, or interpretation and may make a written claim for the adjustment as provided in Article 12.
- C. The following general specifications shall apply wherever in the Specifications, or in any directions given by Owner in accordance with or supplementing Specifications, it is provided that Contractor shall furnish materials or manufactured articles or shall do Work for which no detailed specifications are shown. Materials or manufactured articles shall be of the best grade, in quality and workmanship, obtainable in the market from firms of established good reputation. If not ordinarily carried in stock, the materials or manufactured articles shall conform to industry standards for first class materials or articles of the kind required, with due consideration of the use to which they are to be put. Work shall conform to the usual standards or codes, such as those cited herein, for first class work of the kind required. Contractor shall specify in writing to Owner the materials to be used or Work to be performed under this Paragraph ten Business Days prior to furnishing such materials or performing such Work.

4.04 Use Of Drawings And Specifications.

- A. Drawings, Specifications and other Contract Documents were prepared for use for Work of Contract Documents only. No part of Contract Documents shall be used for any other construction or for any other purpose except with the written consent of Owner. Any unauthorized use of Contract Documents is prohibited and at the sole liability of the user.

ARTICLE 5 - COMMENCEMENT OF THE WORK

5.01 Submission Of Required Schedules

- A. Contractor shall submit to Owner in draft for review and discussion at the Preconstruction Conference, and in final prior to the first payment application, the following schedules:
 - 1. Schedule of Values

2. Progress Schedule, and
 3. Schedule of Submittals.
- B. No progress payment shall be due or owing to Contractor until such schedules are submitted to and acceptable to Owner and/or Architect/Engineer as meeting the requirements of the Contract Documents. In Owner's sole discretion, Owner may elect to instead withhold a portion of any progress payment for unacceptable compliance with contract requirements for such schedules.
- C. Owner's acceptance of Contractor's schedules will not create any duty of care or impose on Owner any responsibility for the sequencing, scheduling or progress of Work nor will it interfere with or relieve Contractor from Contractor's full responsibility therefore.

5.02 Commencement Date Of Contract Time

- A. The Contract Time will commence to run on the 60th Day after the issuance of the Notice of Award or, if a Notice to Proceed is given, on the date indicated in the Notice to Proceed.
- B. Owner may give a Notice to Proceed at any time within 60 Days after the Notice of Award. Contractor shall not do any Work at the Site prior to the date on which the Contract Time commences to run.

ARTICLE 6 - CONTRACTOR'S ORGANIZATION AND EQUIPMENT

6.01 Contractor's Legal Address

- A. Address and facsimile number given in Contractor's Bid are hereby designated as Contractor's legal address and facsimile number. Contractor may change its legal address and facsimile number by notice in writing, delivered to Owner, which in conspicuous language advises Owner of a change in legal address or facsimile number, and which Owner accepts in writing. Delivery to Contractor's legal address or depositing in any post office or post office box regularly maintained by the United States Postal Service, in a wrapper with postage affixed, directed to Contractor at legal address, or of any drawings, notice, letter or other communication, shall be deemed legal and sufficient service thereof upon Contractor. Facsimile to Contractor's designated facsimile number of any letter, memorandum, or other communication on standard or legal sized paper, with proof of facsimile transmission, shall be deemed legal and sufficient service thereof upon Contractor.

6.02 Contractor's Superintendents Or Forepersons

- A. Contractor shall at all times be represented on Site by one or more superintendents or forepersons authorized and competent to receive and carry out any instructions that Owner may give, and shall be liable for faithful observance of instructions delivered to Contractor or to authorized representative or representatives on Site.

6.03 Proficiency In English

- A. Supervisors, security guards, safety personnel and employees who have unescorted access to the Site shall possess proficiency in the English language in order to understand, receive and carry out oral and written communications or instructions relating to their job functions, including safety and security requirements.

6.04 Contractor's And Subcontractors' Employees

- A. Contractor shall employ, and shall permit its Subcontractors to employ, only competent and skillful personnel to do Work. If Owner notifies Contractor that any of its employees, or any of its Subcontractors' employees on Work is incompetent, unfaithful, disorderly or profane, or fails to observe customary standards of conduct or refuses to carry out any provision of the Contract Documents, or uses threatening or abusive language to any person on Work representing Owner, or violates sanitary rules, or is otherwise unsatisfactory, and if Owner requests that such person be discharged from Work, then Contractor or its Subcontractor shall immediately discharge such person from Work and the discharged person shall not be re-employed on the Work except with consent of Owner.

6.05 Contractor's Use Of The Site

- A. Contractor shall not make any arrangements with any person to permit occupancy or use of any land, structure or building within the limits of the Work, for any purpose whatsoever, either with or without compensation, in conflict with any agreement between Owner and any Owner, former Owner or tenant of such land, structure or buildings. Contractor may not occupy Owner-owned property outside the limit of the Work as indicated on the Drawings unless it obtains prior approval from Owner.

6.06 Contractor's Site Office

- A. Unless expressly provided otherwise in the Contract Documents, Contractor shall provide a site office staffed by a resident project manager or job superintendent.

ARTICLE 7 - OWNER'S ADMINISTRATION OF WORK

7.01 Owner's Representative(s)

- A. Owner's Representative(s) will have limited authority to act on behalf of Owner as set forth in the Contract Documents.
- B. Except as otherwise provided in these Contract Documents or subsequently identified in writing by Owner, Owner will issue all communications to Contractor through Owner's Representative, and Contractor shall issue all communications to Owner through Owner's Representative in a written document delivered to Owner.
- C. Should any direct communications between Contractor and Owner's consultants, architects or engineers not identified in Article 2 of Document 00 5200 (Agreement) occur during field visits or by telephone, Contractor shall immediately confirm them in a written document copied to Owner.

7.02 Owner's Observation Of The Work

- A. Work shall be performed under Owner's general observation and administration. Contractor shall comply with Owner's directions and instructions in accordance with the terms of Contract Documents, but nothing contained in these General Conditions shall be taken to relieve Contractor of any obligations or liabilities under the Contract Documents. Owner's failure to review or, upon review, failure to object to any aspect of Work reviewed, shall not be deemed a waiver or approval of any non-conforming aspect of Work.
- B. Subject to those rights specifically reserved in the Contract Documents, Owner will not supervise, or direct, or have control over, or be responsible for, Contractor's means, methods, techniques, sequences or procedures of construction, or the safety precautions and programs incident thereto, or Contractor's failure to comply with laws and regulations applicable to the furnishing or performance of Work. Owner will not be responsible for Contractor's failure to perform or furnish the Work in accordance with Contract Documents.

7.03 Architect/Engineer's Observation Of Work

- A. Owner may engage an Architect/Engineer, an independent consultant or Project Manager (collectively for purposes of this Paragraph, "Project Manager/Architect") to assist in administering the Work. If so engaged, Project Manager/Architect will advise and consult with Owner, but will have authority to act on behalf of Owner only to extent provided in the Contract Documents or as set forth in writing by Owner. Project Manager/Architect will not be responsible for and will not have control or charge of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with Work. Project Manager/Architect will not be responsible for or have control over the acts or omissions of Contractor, Subcontractors or their agents or employees, or any other persons performing Work.
- B. Project Manager/Architect may review Contractor's Submittals, such as Shop Drawings, Product Data, and Samples, but only for conformance with design concept of Work and with information given in the Contract Documents.

- C. Project Manager/Architect may visit the Site at intervals appropriate to stage of construction to become familiar generally with the progress and quality of Work and to determine in general if Work is proceeding in accordance with Contract Documents. Based on its observations, Project Manager/Architect may recommend to Owner that it disapproves or rejects Work that Project Manager/Architect believes to be Defective or will not produce a complete Project that conforms to Contract Documents or will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by Contract Documents. Owner will also have authority to require special inspection or testing of Work, whether or not the Work is fabricated, installed or completed.
- D. Project Manager/Architect may conduct inspections to recommend to Owner the dates that Contractor has achieved Substantial Completion and Final Acceptance, and will receive and forward to Owner for review written warranties and related documents required by Contract Documents.

7.04 Owner's And Architect/Engineer's Exercise Of Contract Responsibilities

- A. Owner, Project Manager, Architect/Engineer and all Owner's representatives, in performing their duties and responsibilities under the Contract Documents, accept no duties, responsibilities or duty of care, nor may the same be implied or inferred, towards Contractor, any Subcontractor, sub-Subcontractor or supplier, except those set forth expressly in the Contract Documents.

7.05 Owner's Right Of Access To The Work

- A. During performance of Work, Owner and its agents, consultants, and employees may at any time enter upon Work, shops or studios where any part of the Work may be in preparation, or factories where any materials for use in Work are being or are to be manufactured, and Contractor shall provide proper and safe facilities for this purpose, and shall make arrangements with manufacturers to facilitate inspection of their processes and products to such extent as Owner's interests may require. Other contractors performing work for Owner may also enter upon Work for all purposes required by their respective contracts. Subject to the rights reserved in the Contract Documents, Contractor shall have sole care, custody, and control of the Site and its Work areas.

7.06 Owner's Right Of Separate Construction

- A. Owner may perform with its own forces, construction or operations related to the Project, or the Site during Contractor's operations. Owner may also award separate contracts in connection with other portions of the Project or other construction or operations, on the Site or areas contiguous to the Site, under conditions similar to these Contract Documents, or may have utility Owners perform other work.
- B. Contractor shall adjust its schedule and fully coordinate with and shall afford all other contractors, utility districts and Owner (if Owner is performing work with its own forces), proper and safe access to the Site, and reasonable opportunity for the installation and storage of their materials. Contractor shall ensure that the execution of its Work properly connects and coordinates with others' work, do all cutting, fitting and patching of the Work that may be required to make its several parts come together properly and integrate with such other work, and shall cooperate with them to facilitate the progress of the Work.
- C. To the extent that any part of Contractor's Work is to interface with work performed or installed by other contractors or utility owners, Contractor shall inspect and measure the in-place work. Contractor shall promptly report to Owner in writing any defect in in-place work that will impede or increase the cost of Contractor's interface unless corrected.

ARTICLE 8 - CONTRACTOR'S PROSECUTION AND PROGRESS OF THE WORK

8.01 Contractor To Supervise The Work

- A. Subject to those rights specifically reserved in the Contract Documents, Contractor shall supervise, direct, have control over, and be responsible for, Contractor's means, methods, techniques,

sequences or procedures of construction, safety precautions and programs incident thereto, and compliance with laws and regulations applicable to the furnishing or performance of Work.

- B. Contractor shall keep on the Site at all times during Work progress a competent resident Superintendent, who shall not be replaced without Owner's express written consent. The Superintendent shall be Contractor's representative at the Site and shall have complete authority to act on behalf of Contractor. All communications to and from the Superintendent shall be as binding as if given to or by Contractor.
- C. Contractor shall supervise, inspect, and direct Work competently and efficiently, devoting the attention and applying such personal skills and expertise as may be required and necessary to perform Work in accordance with Contract Documents. Contractor shall be solely responsible for and have control and charge of construction means, methods, techniques, sequences and procedures, safety precautions and programs in connection with the Work. Contractor shall be responsible to see that the completed Work complies accurately with Contract Documents.
- D. Contractor is fully responsible for Contractor's own acts and omissions. Contractor is responsible for all acts and omissions of its Subcontractors, suppliers, and other persons and organizations performing or furnishing any of the Work, labor, materials, or equipment under a direct or indirect contract with Contractor.
- E. Contractor shall conduct monthly Contractor Safety Committee meetings, and weekly toolbox safety talks.

8.02 Contractor To Maintain Cost Data

- A. Contractor shall maintain full and correct information as to the number of workers employed in connection with each subdivision of Work, the classification and rate of pay of each worker in form of certified payrolls, the cost to Contractor of each class of materials, tools and appliances used by Contractor in Work, and the amount of each class of materials used in each subdivision of Work. Contractor shall provide Owner with monthly summaries of this information. If Contractor maintains or is capable of generating summaries or reports comparing actual Project costs with Bid estimates or budgets, Contractor shall provide Owner with a copy of such report upon Owner's request.
- B. Contractor shall maintain daily job reports recording all significant activity on the job, including the number of workers on Site, Work activities, problems encountered and delays. Contractor shall provide Owner with copies for each Day Contractor works on the Project, to be delivered to Owner either the same Day or the following morning before starting work at the Site. Contractor shall take pre-construction and monthly progress photographs of all areas of the Work. Contractor shall maintain copies of all correspondence with Subcontractors and records of meetings with Subcontractors.
- C. Owner shall have the right to audit and copy Contractor's books and records of any type, nature or description relating to the Project (including but not limited to financial records reflecting in any way costs claimed on the Project), and to inspect the Site, including Contractor's trailer, or other job Site office, and this requirement shall be contained in the subcontracts of Subcontractors working on Site. By way of example, Owner shall have the right to inspect and obtain copies of all Contract Documents, planning and design documents, Bid proposal and negotiation documents, cost records and job cost variance reports, design modification proposals, value engineering or other cost reduction proposals, revisions made to the original design, job progress reports, photographs, and as-built drawings maintained by Contractor. Owner and any other applicable governmental entity shall have the right to inspect all information and documents maintained hereunder at any time during the Project and for a period of five years following Final Completion, in accordance with the provisions of Section 8546.7 of the California Government Code. This right of inspection shall not relieve Contractor of its duties and obligations under the Contract Documents. This right of inspection shall be specifically enforceable in a court of law, either independently or in conjunction with enforcement of any other rights in the Contract Documents.

8.03 Contractor To Supply Sufficient Workers And Materials

- A. Unless otherwise required by Owner under the terms of Contract Documents, Contractor shall at all times keep on the Site materials and employ qualified workers sufficient to prosecute Work at a

rate and in a sequence and manner necessary to complete Work within the Contract Time. This obligation shall remain in full force and effect notwithstanding disputes or claims of any type.

- B. At any time during progress of Work should Contractor directly or indirectly (through Subcontractors) refuse, neglect, or be unable to supply sufficient materials or employ qualified workers to prosecute the Work as required, then Owner may require Contractor to accelerate the Work and/or furnish additional qualified workers or materials as Owner may consider necessary, at no cost to Owner. If Contractor does not comply with the notice within three Business Days of date of service thereof, Owner shall have the right (but not a duty) to provide materials and qualified workers to finish the Work or any affected portion of Work, as Owner may elect. Owner may, at its discretion, exclude Contractor from the Site, or portions of the Site or separate work elements during the time period that Owner exercises this right. Owner will deduct from moneys due or which may thereafter become due under the Contract Documents, the sums necessary to meet expenses thereby incurred and paid to persons supplying materials and doing Work. Owner will deduct from funds or appropriations set aside for purposes of Contract Documents the amount of such payments and charge them to Contractor as if paid to Contractor. Contractor shall remain liable for resulting delay, including liquidated damages and indemnification of Owner from claims of others.
- C. Exercise by Owner of the rights conferred upon Owner in this subparagraph is entirely discretionary on the part of Owner. Owner shall have no duty or obligation to exercise the rights referred to in this subparagraph and its failure to exercise such rights shall not be deemed an approval of existing Work progress or a waiver or limitation of Owner's right to exercise such rights in other concurrent or future similar circumstances. (The rights conferred upon Owner under this subparagraph are, like all other such rights, cumulative to Owner's other rights under any provision of the Contract Documents.)

8.04 Contractor To Maintain Project Record Documents

- A. Contractor shall maintain in a safe place at the Site one record copy of all Drawings, Specifications, Addenda, Contract Modifications, Change Orders, Work Directives, Force Account orders, and written interpretations and clarifications in good order and annotated to show all as-built changes made during construction. These Project Record Documents, together with all approved Samples and a counterpart of all approved Shop Drawings, shall be maintained and available to Owner for reference. Upon completion of the Work, Contractor shall deliver to Owner, the Project Record Documents, Samples and Shop Drawings and as-built drawings.
- B. Throughout Contractor's performance of the Work of the Project, Contractor shall maintain construction records to include: shop drawings; product data/material data sheets; samples; submittal; purchases; materials; equipment; inspections; applicable handbooks; applicable codes and standards; maintenance and operating manuals and instructions; RFI Log; Submittal Log; other related documents and revisions which arise out of the Construction Contracts. Contractor shall maintain records of principal building layout lines, elevations for the bottom of footings, floor levels, and key site elevations (certified by a qualified surveyor or professional engineer). Contractor shall make all records available to Owner. At the completion of the Project, Contractor shall deliver all such records to the Owner to have a complete set of record as-built drawings.

8.05 Contractor To Not Disrupt Owner Operation

- A. Contractor shall schedule and execute all Work in a manner that does not interfere with or disrupt Owner operations, including but not limited to, parking, utilities (electricity, gas, water), noise, access by employees and administration, access by vendors, physicians, patients and any other person or entity using Owner facilities or doing business with Owner. Contractor shall produce and supply coordination plans and requests to Owner, following Owner procedures, for all necessary interference of construction with Owner, which Owner will reasonably cooperate with.

8.06 Contractor To Provide Temporary Facilities And Controls

- A. Unless expressly provided otherwise in the Contract Documents, Contractor shall provide all temporary utilities (including without limitation electricity, water, natural gas), lighting, heating, cooling and ventilating devices, telephone, sanitary facilities, barriers, fences and enclosures, tree

and plant protection, fire protection, pollution, erosion, Storm Water Pollution Prevention controls, noise and traffic control, and any other necessary services required for construction, testing or completion of the Work.

ARTICLE 9 - WARRANTY, GUARANTY, AND INSPECTION OF WORK

9.01 Warranty And Guaranty

- A. General Representations and Warranties: Contractor represents and warrants that it is and will be at all times fully qualified and capable of performing every Phase of the Work and to complete Work in accordance with the terms of Contract Documents. Contractor warrants that all construction services shall be performed in accordance with generally accepted professional standards of good and sound construction practices and all requirements of Contract Documents. Contractor warrants that Work, including but not limited to each item of materials and equipment incorporated therein, shall be new, of suitable grade of its respective kind for its intended use, and free from defects in design, engineering, materials, construction and workmanship. Contractor warrants that Work shall conform in all respects with all applicable requirements of federal, state and local laws, applicable construction codes and standards, licenses, and permits, Drawings and Specifications and all descriptions set forth therein, and all other requirements of Contract Documents. Contractor shall not be responsible, however, for the negligence of others in the specification of specific equipment, materials, design parameters and means or methods of construction where that is specifically shown and expressly required by Contract Documents.
- B. Extended Guarantees: Any guarantee exceeding two years provided by the supplier or manufacturer of any equipment or materials used in the Project shall be extended for such term. Contractor expressly agrees to act as co-guarantor of such equipment and materials and shall supply Owner with all warranty and guarantee documents relative to equipment and materials incorporated in the Project and guaranteed by their suppliers or manufacturers.
- C. Environmental and Toxics Warranty: The covenants, warranties and representations contained in this Paragraph are effective continuously during Contractor's Work on the Project and following cessation of labor for any reason including, but not limited to, Project completion. Contractor covenants, warrants and represents to Owner that:
 - 1. To Contractor's knowledge after due inquiry, no lead or Asbestos-containing materials were installed or discovered in the Project at any time during Contractor's construction thereof. If any lead or Asbestos-containing materials were discovered, Contractor made immediate written disclosure to Owner.
 - 2. To Contractor's knowledge after due inquiry, no electrical transformers, light fixtures with ballasts or other equipment containing PCBs are or were located on the Project at any time during Contractor's construction thereof.
 - 3. To Contractor's knowledge after due inquiry, no storage tanks for gasoline or any other toxic substance are or were located on the Project at any time during Contractor's construction thereof. If any such materials were discovered, Contractor made immediate written disclosure to Owner.
 - 4. Contractor's operations concerning the Project are and were not in violation of any applicable environmental federal, state, or local statute, law or regulation dealing with hazardous materials substances or toxic substances and no notice from any governmental body has been served upon Contractor claiming any violation of any such law, ordinance, code or regulation, or requiring or calling attention to the need for any Work, repairs, construction, alteration, or installation on or in connection with the Project in order to comply with any such laws, ordinances, codes, or regulations, with which Contractor has not complied. If there are any such notices with which Contractor has complied, Contractor shall provide Owner with copies thereof.

9.02 Inspection Of Work

- A. Work and materials, and manufacture and preparation of materials, from beginning of construction until Final Completion and acceptance of Work, shall be subject to inspection and rejection by Owner, its agents, representatives or independent contractors retained by Owner to perform inspection services, or governmental agencies with jurisdictional interests. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's Site safety procedures and program so that they may comply therewith as applicable. Upon request or where specified, Owner shall be afforded access for inspection at the source of supply, manufacture or assembly of any item of material or equipment, with reasonable accommodations supplied for making such inspections.
- B. Contractor shall furnish, in such quantities and sizes as may be required for proper examination and tests, Samples or test specimens of all materials to be used or offered for use in connection with Work. Contractor shall prepare Samples or test specimens at its expense and furnish them to Owner. Contractor shall submit all Samples in ample time to enable Owner to make any necessary tests, examinations, or analyses before the time it is desired to incorporate the material into the Work.
- C. Contractor shall give Owner timely notice of readiness of Work for all required inspections, tests or approvals, and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.
- D. If applicable laws or regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging and obtaining such inspections, tests or approvals, and furnish Owner with the required certificates of inspection, or approval. Owner will pay the cost of initial testing and Contractor shall pay all costs in connection with any follow-up or additional testing. Contractor shall also be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests or approvals required for the acceptance of materials or equipment to be incorporated in the Work, or of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.
- E. If Contractor covers any Work, or the work of others, prior to any required inspection, test or approval without written approval of Owner, Contractor shall uncover the Work at Owner's request. Contractor shall bear the expense of uncovering Work and replacing Work. In any case where Contractor covers Work contrary to Owner's request, Contractor shall uncover Work for Owner's observation or inspection at Owner's request. Contractor shall bear the cost of uncovering Work.
- F. Whenever required by Owner, Contractor shall furnish tools, labor and materials necessary to make examination of Work that may be completed or in progress, even to extent of uncovering or taking down portions of finished Work. Should Work be found unsatisfactory, cost of making examination and of reconstruction shall be borne by Contractor. If Work is found to be satisfactory, Owner, in manner herein prescribed for paying for alterations, Modifications, and extra Work, except as otherwise herein specified, will pay for examination.
- G. Inspection of the Work by or on behalf of Owner, or Owner's failure to do so, shall not under any circumstances be deemed a waiver or approval of any non-conforming aspect of the Work. Contractor shall have an absolute duty, in the absence of a written Change Order signed by Owner, to perform Work in conformance with the Contract Documents and to immediately correct Defective Work immediately upon Contractor's knowledge.
- H. Any inspection, evaluation, or test performed by or on behalf of Owner relating to the Work is solely for the benefit of Owner, and shall not be relied upon by Contractor. Contractor shall not be relieved of the obligation to perform Work in accordance with the Contract Documents, nor relieved of any guaranty, warranty, or other obligation, as a result of any inspections, evaluations, or tests performed by Owner, whether or not such inspections, evaluations, or tests are permitted or required under the Contract Documents. Contractor shall be solely responsible for testing and inspecting Work already performed to determine whether such Work is in proper condition to receive later Work.

9.03 Correction Of Defective Work

- A. Owner may direct Contractor to correct any Defective Work or remove it from the Site and replace it with Work that is not Defective and satisfactorily correct or remove and replace any damage to other Work or the work of others resulting from the correction or removal. Contractor shall be responsible for any and all claims, costs, losses and damages caused by or resulting from such correction or removal. A Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work and the Contract Sum. If the parties are unable to agree to the amount of an appropriate decrease in the Contract Sum, Owner may decide the proper amount or, in its discretion may elect to leave the Contract Sum unchanged and deduct from monies due Contractor, all such claims, costs, losses and damages caused by or resulting from the correction or removal. If Contractor disagrees with Owner's calculations, it may make a claim as provided in Article 12 of this Document 00 7200. Owner's rights under this Paragraph shall be in addition to any other rights it may have under the Contract Documents or by law.
- B. If Contractor fails to supply sufficient skilled workers, suitable materials or equipment, or to furnish or perform the Work in such a way that the completed Work will conform to Contract Documents, Owner may order Contractor to replace any such Defective Work, or stop any portion of Work to permit Owner (at Contractor's expense) to replace such Defective Work. These Owner rights are entirely discretionary on the part of Owner, and shall not give rise to any duty on the part of Owner to exercise the rights for the benefit of Contractor or any other party.

9.04 Acceptance And Correction Of Defective Work By Owner

- A. Owner may in its sole discretion elect to accept Defective Work. Contractor shall pay all claims, costs, losses and damages attributable to Owner's evaluation of and determination to accept such Defective Work. If Owner accepts any Defective Work prior to final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work and the Contract Sum. If the parties are unable to agree to the amount of an appropriate decrease in the Contract Sum, Owner may deduct from monies due Contractor, all claims, costs, losses, damages, expenses and liabilities attributable to the Defective Work. If Contractor disagrees with Owner's calculations, Contractor may make a claim as provided in Article 12 of this Document 00 7200. If Owner accepts any Defective Work after final payment, Contractor shall pay to Owner, an appropriate amount as determined by Owner.
- B. Owner may correct and remedy deficiency if, after five Days' written notice to Contractor, Contractor fails to correct Defective Work or to remove and replace rejected Work; or provide a plan for correction of Defective Work acceptable to Owner; or perform Work in accordance with Contract Documents. In connection with such corrective and remedial action, Owner may exclude Contractor from all or part of the Site; take possession of all or part of Work and suspend Contractor's Work related thereto; take possession of all or part of Contractor's tools, appliances, construction equipment and machinery at the Site; and incorporate in Work any materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, its representatives, agents, employees, and other contractors and Project Manager/Architect's consultants' access to the Site to enable Owner to exercise the rights and remedies under this Paragraph. Contractor shall be responsible for all claims, costs, losses, damages, expenses and liabilities incurred or sustained by Owner in exercising such rights and remedies. A Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to Work and the Contract Sum. If the parties are unable to agree to the amount of an appropriate decrease in the Contract Sum, Owner may deduct from moneys due Contractor, all claims, costs, losses and damages caused by or resulting from the correction or removal. If Contractor disagrees with Owner's calculations, Contractor may make a claim as provided in Article 12.

9.05 Rights Upon Inspection, Correction Or Acceptance

- A. Contractor shall not be allowed an extension of Contract Time because of any delay in the performance of Work attributable to the exercise by Owner of its rights and remedies under this Article. Where Owner exercises its rights under this Article, it retains and may still exercise all other rights it has by law or under the Contract Documents including, but not limited to, the right to

terminate Contractor's right to proceed with the Work under the Contract Documents for cause and/or make a claim or back charge where a Change Order cannot be agreed upon.

- B. Inspection by Owner or its authorized agents or representatives shall not relieve Contractor of its obligation to have furnished material and workmanship in accordance with Contract Documents. Payment for Work completed through periodic progress payments, final payment or otherwise shall not operate to waive Owner's right to require full compliance with Contract Documents and shall in no way be deemed as acceptance of any defective Work paid therefor. Contractor's obligation to complete the Work in accordance with Contract Documents shall be absolute, unless Owner agrees otherwise in writing.

9.06 Proof Of Compliance Of Contract Provisions

- A. In order that Owner may determine whether Contractor has complied or is complying with requirements of Contract Documents not readily enforceable through inspection and tests of Work and materials, Contractor shall at any time, when requested, submit to Owner properly authenticated documents or other satisfactory proofs of compliance with all applicable requirements.
- B. Before commencing any portion of Work, Contractor shall inform Owner in writing as to time and place at which Contractor wishes to commence Work, and nature of Work to be done, in order that proper provision for inspection of Work may occur, and to assure measurements necessary for record and payment. Information shall be given to Owner a reasonable time in advance of time at which Contractor proposes to begin Work, so that Owner may complete necessary preliminary work without inconvenience or delay to Contractor.

9.07 Correction Period And Project Warranty Period:

- A. If within two years after the date of Final Acceptance, or such longer period of time as may be prescribed by laws, regulations or by the terms of Contract Documents or any extended warranty or guaranty, any Work (completed or incomplete) is found to be Defective, Contractor shall promptly without cost to Owner and in accordance with Owner's written instructions, correct such Defective Work. Contractor shall remove any Defective Work rejected by Owner and replace it with Work that is not Defective, and satisfactorily correct or remove and replace any damage to other Work or the work of others resulting therefrom. If Contractor fails to promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the Defective Work corrected or the rejected Work removed and replaced. Contractor shall pay for all claims, costs, losses and damages caused by or resulting from such removal and replacement. Where Contractor fails to correct Defective Work, or defects are discovered outside the correction period, Owner shall have all rights and remedies granted by law.
- B. In special circumstances where a part of the Work is occupied or a particular item of equipment is placed in continuous service before Final Acceptance of all the Work, the correction period for that part of Work or that item may start to run from an earlier date if so provided by Change Order.
- C. Where Defective Work or rejected Work (and damage to other Work resulting therefrom) has been corrected, removed, or replaced under this provision after the commencement of the correction period, the correction period hereunder with respect to such Work shall be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.

9.08 No Waiver

- A. Neither recordation of Final Acceptance nor final certificate for payment nor provision of the Contract nor partial or entire use or occupancy of premises by Owner shall constitute acceptance of Work not done in accordance with Contract Documents nor relieve Contractor of liability in respect to express warranties or responsibility for faulty materials or workmanship.
- B. If, after installation, operation, or use of materials or equipment to be provided under Contract proves to be unsatisfactory to Owner, Owner shall have right to operate and use materials or equipment until said materials and equipment can, without damage to Owner, be taken out of service for correction or replacement. Period of use of Defective materials or equipment pending

correction or replacement shall in no way decrease guarantee period required for acceptable corrected or replaced items of materials or equipment.

- C. Nothing in the Contract Documents shall be construed to limit, relieve, or release Contractor's, Subcontractors', and equipment suppliers' liability to Owner for damages sustained as result of latent defects in materials or equipment caused by negligence of Contractor, its agents, suppliers, employees, or Subcontractors.

ARTICLE 10 - MODIFICATIONS OF CONTRACT DOCUMENTS

10.01 Owner's Right To Direct Changed Work.

- A. Owner may, without notice to the sureties and without invalidating the Contract, make changes in the Work ("Changed Work"), including without limitation: alterations, deviations, additions to, or deletions from Contract Documents; increase or decrease the quantity of any item or portion of the Work; expand, reduce or otherwise change the Contract Time; delete any item or portion of the Work; and require extra Work. Contractor shall perform such Work under applicable provisions of the Contract Documents, unless specifically provided otherwise at the time the change is ordered. In the case of any ordered extra Work, Owner reserves the right to furnish all or portions of associated labor, material, and equipment, which Contractor shall accept and use without payment for costs, markup, profit, or otherwise for such Owner-furnished labor, materials, and equipment.
- B. If Changed Work is of such a nature as to increase or decrease the time or cost of any part of Work, price fixed in Contract shall be increased or decreased by amount as the Contractor and Owner may agree upon as reasonable and proper allowance for increase or decrease in cost of Work using the cost guidelines set forth in this Article, and absent such agreement, then as Owner may direct (with Contractor retaining its rights under Article 12 herein).

10.02 Required Documentation For Changed Work

- A. Changes affecting the Contract Time or Contract Sum of the Work shall be set forth in a written Change Order or Change Directive that shall specify:
 - 1. The Work performed in connection with the change to be made;
 - 2. The amount of the adjustment of the Contract Sum, if any, and the basis for compensation for the Work ordered; and
 - 3. The extent of the adjustment in the Contract Time, if any.
- B. A Change Order or Change Directive will become effective when signed by Owner, notwithstanding that Contractor has not signed it. A Change Order will become effective without Contractor's signature, provided Owner indicates same thereon (by indicating it as a "unilateral change order").
- C. All changes in any plans and specifications approved by any authority with jurisdiction may also require addenda or change orders approved by that authority.
- D. Where Owner requests, a performance bond rider covering the changed Work must be executed and delivered to Owner before proceeding with the changed Work or shortly in time thereafter.

10.03 Procedures And Pricing Of Changed Work

- A. Procedures for changed work and pricing of changed work, claims and all forms of extra compensation, are set forth in Section 01 2600 (Modification Procedures).

ARTICLE 11 - TIME ALLOWANCES

11.01 Time Allowances

- A. Time is of the essence. Contract Time may only be changed by Change Order, and all time limits stated in the Contract Documents are to mean that time is of the essence.

11.02 Excusable Delay And Inexcusable Delay Defined.

- A. Excusable Delay. Subject to the provisions on Notice of Delay below, Contract Time may be adjusted in an amount equal to the time lost due to:

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1. Changes in the Work ordered by Owner ("**Changes**");
 2. Acts or neglect by Owner, Architect, any Owner Representative, utility owners or other contractors performing other work, not permitted or provided for in the Contract Documents, provided that Contractor has performed its responsibilities under the Contract Documents (including but not limited to pre-bid investigations) ("**Acts or Neglect**"); or
 3. Fires, floods, epidemics, abnormal weather conditions beyond the parameters otherwise set forth in this Article, earthquakes, civil or labor disturbances, or acts of God (together, "force majeure events"), provided damages resulting therefrom are not the result of Contractor's failure to protect the Work as required by Contract Documents ("**Force Majeure**").
- B. Inexcusable Delay. Contract Time shall not be extended for any period of time where Contractor (and/or any Subcontractor) is delayed or prevented from completing any part of the Work due to a cause that is within Contractor's risk or responsibility under the Contract Documents. Delays attributable to or within the control of a Subcontractor, or its subcontractors, or supplier, are deemed delays within the control of Contractor.
- C. Float. Float shall be treated as a Project resource. Contractor shall not be entitled to a time extension for impacts that consume float, but do not impact the critical path.

11.03 Notice Of Delay

- A. Within seven Days of the beginning of any delay (excepting adverse weather delays), Contractor shall notify Owner in writing, by submitting a notice of delay that shall describe the anticipated delays resulting from the delay event in question. If Contractor requests an extension of time, Contractor shall submit a TIE within ten days of the notice of delay. Owner will determine all claims and adjustments in the Contract Time. No claim for an adjustment in the Contract Time will be valid and such claim will be waived if not submitted in accordance with the requirements of this subparagraph. In cases of substantial compliance with the seven-day notice requirement here (but not to exceed twenty-one days from the beginning of the delay event), Owner may in its sole discretion recognize a claim for delay accompanied with the proper TIE, provided Contractor also shows good faith and a manifest lack of prejudice to Owner from the late notice.

11.04 Compensable Time Extensions

- A. Subject to other applicable provisions of the Contract Documents, Contractor may be entitled to adjustment in Contract Sum in addition to Contract Time for:
1. Excusable delay caused solely by Changes in the Work ordered by Owner, as provided above, and/or
 2. Excusable delay caused solely by Acts or Neglect by Owner or other person, as provided above.

11.05 Non-Compensable Time Extensions

- A. Subject to other applicable provisions of the Contract Documents, Contractor may be entitled to adjustment in Contract Time only, without adjustment in Contract Sum, for
1. Periods of excusable delay caused solely by weather or Force Majeure events as provided above in this Article, or
 2. Periods of concurrent delay, where delay results from two or more causes, one of which is compensable (resulting from Changes or Acts or Neglect as set forth above in this Article), and the other of which is non-compensable or unexcusable, such as: acts or neglect of Contractor, Subcontractors or others for whom Contractor is responsible; other acts, omissions and conditions which would not entitle Contractor to adjustment in Contract Time; adverse weather; and/or actions of Force Majeure as provided above in this Article.

11.06 Adverse Weather

- A. Adverse weather delays may be allowed only if the number of workdays of adverse weather exceeds the parameters listed or referenced immediately below in this subparagraph and

Contractor proves that adverse weather actually caused delays to work on the critical path. Contractor shall give written notice of intent to claim an adverse weather day within one Day of the adverse weather day occurring.

- B. Claims for extension of time for rain delay will not be granted unless the number of days work is prevented by rain exceeds 110% of the average number of rain days expected for the period of the Contract Time, based on the records of the National Oceanic & Atmospheric Administration (NOAA) weather station closest to the Project Site, as measured and reported by NOAA. (For example, for California, Oregon and Washington, these figures are contained in the ">=0.10 inch" column at the applicable weather station's "General Climate Summary Table" for "Precipitation" at <http://www.wrcc.dri.edu/Climsum.html>), pro-rated in the individual month Contractor starts and finishes Work. Delays due to adverse weather conditions will not be allowed for weather conditions that fall within these parameters.
- C. In order to qualify as an adverse weather delay with respect to the foregoing parameters, (i.) daily rainfall must exceed .1 inch, and/or (ii.) daily snowfall must exceed 1.0 inch or more, at the NOAA station located closest to the Project site, as measured and reported by NOAA. Notwithstanding these allowances, Contractor shall at all times employ all available mitigation measures to enable Work to continue, Contractor shall take reasonable steps to mitigate potential weather delays, such as dewatering the Site, lime treatment, and covering Work and material that could be affected adversely by weather. Failure to do so shall be cause for Owner to not grant a time extension due to adverse weather, where Contractor could have avoided or mitigated the potential delay by exercising reasonable care.
- D. Contractor shall include the foregoing precipitation parameters as a monthly activity in its progress schedule. As Work on the critical path is affected by precipitation, Contractor shall notify Owner and request that the days be moved to the affected activities. Any adverse weather days remaining shall be considered Project float available to either Owner or Contractor.
- E. Adverse weather delay for precipitation shall be recognized for the actual period of time Contractor proves it was delayed by precipitation exceeding the specified parameters. For example, and not by way of limitation, if precipitation exceeding the specified parameters does not in fact delay Contractor's progress on the critical path, then no time extension shall be recognized; and conversely, if Contractor proves to Owner's satisfaction that precipitation exceeding the specified parameters causes delay to Contractor for a period longer than the number of precipitation days incurred (e.g., if it rains or snows during grading work), then Contractor shall be entitled to a time extension equal to the actual period of such delay.
- F. During unfavorable weather, wet ground, or other unsuitable construction conditions, Contractor shall employ best practices to protect the Work, manage the construction site and rainwater during inclement weather. Persons performing the Work shall examine surfaces to receive their Work and shall report in writing to Contractor, with copy to Owner representative and the Architect conditions detrimental to the Work. Failure to examine and report discrepancies makes the Contractor responsible, at no increase in Contract Sum, for corrections Owner may require. Commencement of Work constitutes acceptance of surface.

11.07 Liquidated Damages

- A. Time is of the essence. Execution of Contract Documents by Contractor shall constitute its acknowledgement that Owner will actually sustain damages in the form of Contract administration expenses (such as Project management and consultant expenses) in the amount fixed in the Contract Documents for each and every Day during which completion of Work required is delayed beyond expiration of time fixed for completion plus extensions of time allowed pursuant to provisions hereof.
- B. Contractor and Owner agree that because of the nature of the Project, it would be impractical or extremely difficult to fix the amount of such actual damages incurred by Owner because of a delay in completion of all or any part of the Work. Contractor and Owner agree that specified measures of liquidated damages shall be presumed to be the amount of such damages actually sustained by Owner, and that because of the nature of the Project, it would be impracticable or extremely difficult to fix the actual damages.

- C. Liquidated damages for delay shall cover administrative, overhead, interest on bonds, and general loss of public use damages suffered by Owner as a result of delay. Liquidated damages shall not cover the cost of completion of the Work, damages resulting from Defective Work, lost revenues or costs of substitute facilities, or damages suffered by others who then seek to recover their damages from Owner (for example, delay claims of other contractors, subcontractors, tenants, or other third-parties), and defense costs thereof. Owner may deduct from any money due or to become due to Contractor subsequent to time for completion of entire Work and extensions of time allowed pursuant to provisions hereof, a sum representing then-accrued liquidated damages.

ARTICLE 12 - CLAIMS BY CONTRACTOR

12.01 Obligation to File Claims for Disputed Work

- A. Should it appear to Contractor that the Work to be performed or any of the matters relative to the Contract Documents are not satisfactorily detailed or explained therein, or should any questions arise as to the meaning or intent of the Contract Documents, or should any dispute arise regarding the true value of any work performed, work omitted, extra work that the Contractor may be required to perform, time extensions, payment to the Contractor during performance of this Contract, performance of the Contract, and/or compliance with Contract procedures, or should Contractor otherwise seek extra time or compensation FOR ANY REASON WHATSOEVER, then Contractor shall first follow procedures set forth in the Contract (including but not limited to other Articles of this Document 00 7200 and Section 01 2600.) If a dispute remains, then Contractor shall give written notice to Owner that expressly invokes this Article 12. Owner shall decide the issue in writing within 15 days; and Owner's written decision shall be final and conclusive. If Contractor disagrees with Owner's decision, or if Contractor contends that Owner failed to provide a decision timely, then Contractor's SOLE AND EXCLUSIVE REMEDY is to promptly file a written claim setting forth Contractor's position as required herein.

12.02 Form And Contents Of Claim

- A. Contractor's written claim must identify itself as a "Claim" under this Article 12 and must include the following: (1) a narrative of pertinent events; (2) citation to contract provisions; (3) theory of entitlement; (4) complete pricing of all cost impacts; (5) a time impact analysis of all time delays that shows actual time impact on the critical path; (6) documentation supporting items 1 through 5; a verification under penalty of perjury of the claim's accuracy. The Claim shall be submitted to Owner within thirty (30) calendar days of receiving Owner's written decision, or the date Contractor contends such decision was due, and shall be priced like a change order according to Section 01 2600, and must be updated monthly as to cost and entitlement if a continuing claim. Routine contract materials, for example, correspondence, RFI, Change Order requests, or payment requests shall not constitute a claim. Contractor shall bear all costs incurred in the preparation and submission of a claim.

12.03 Administration During/After Claim Submission

- A. Owner may render a final determination based on the Claim or may in its discretion conduct an administrative hearing on Contractor's claim, in which case Contractor shall appear, participate, answer questions and inquiries, and present any further evidence or analysis requested by Owner prior to rendering a final determination. Should Owner take no action on the Claim within 45 days of submission, it shall be deemed denied.
- B. Notwithstanding and pending the resolution of any claim or dispute, Contractor shall diligently prosecute the disputed work to final completion in accordance with Owner's determination.
- C. After their submission, claims less than \$375,000 shall also be subject to the Local Agency Disputes Act.

12.04 Compliance

- A. The provisions of this Article 12 constitute a non-judicial claim settlement procedure that, pursuant to Section 930.2 of the California Government Code, shall constitute a condition precedent to

submission of a valid Government Code Claim under the California Government Code. Contractor shall bear all costs incurred in the preparation, submission and administration of a claim. Any claims presented in accordance with the Government Code must affirmatively indicate Contractor's prior compliance with the claims procedure herein and the previous dispositions under Paragraph 12.3 above of the claims asserted. Pursuant to Government Code Section 930.2, the one-year period in Government Code section 911.2 shall be reduced to 150 days from either accrual of the cause of action, substantial completion or termination of the contract, whichever occurs first; in all other respects, the Government Code shall apply unchanged.

- B. Failure to submit and administer claims as required in Article 12 shall waive Contractor's right to claim on any specific issues not included in a timely submitted claim. Claim(s) or issue(s) not raised in a timely protest and timely claim submitted under this Article 12 may not be asserted in any subsequent litigation, Government Code Claim, or legal action.
- C. Owner shall not be deemed to waive any provision under this Article 12, if at Owner's sole discretion, a claim is administered in a manner not in accord with this Article 12. Waivers or modifications of this Article 12 may only be made a signed change order approved as to form by legal counsel for both Owner and Contractor; oral or implied modifications shall be ineffective.

ARTICLE 13 - UNDERGROUND CONDITIONS

13.01 Contractor To Locate Underground Facilities.

- A. During construction, Contractor shall comply with Government Code Sections 4216 to 4216.9, and in particular Section 4216.2 which provides, in part: "Except in an emergency, every person planning to conduct any excavation shall contact the appropriate regional notification center at least two working days, but no more than 14 calendar days, prior to commencing that excavation, if the excavation will be conducted in an area which is known, or reasonably should be known, to contain subsurface installations other than the underground facilities owned or operated by the excavator, and, if practical, the excavator shall delineate with white paint or other suitable markings the area to be excavated. The regional notification center shall provide an inquiry identification number to the person who contacts the center and shall notify any member, if known, who has a subsurface installation in the area of the proposed excavation."
- B. Contractor shall contact USA, and schedule the Work to allow ample time for the center to notify its members and, if necessary, for any member to field locate and mark its facilities. Contractor is charged with knowledge of all subsurface conditions reflected in USA records. Prior to commencing excavation or trenching work, Contractor shall provide Owner with copies of all USA records secured by Contractor. Contractor shall advise Owner of any conflict between information provided in Document 00 3132 (Geotechnical Data and Existing Conditions), the Drawings and that provided by USA records. Contractor's excavation shall be subject to and comply with the Contract Documents.
- C. Contractor shall also investigate the existence of existing service laterals, appurtenances or other types of utilities, indicated by the presence of an underground transmission main or other visible facilities, such as buildings, new asphalt, meters and junction boxes, on or adjacent to the Site, even if not shown or indicated in Document 00 3132 (Geotechnical Data and Existing Conditions), the Drawings or that provided by USA records. Contractor shall immediately secure all such available information and notify Owner and the utility owner, in writing, of its discovery.

13.02 Contractor To Protect Underground Facilities.

- A. At all times during construction, all operating Underground Facilities shall remain in operation, unless the Contract Documents expressly indicate otherwise. Contractor shall maintain such Underground Facilities in service where appropriate; shall repair any damage to them caused by the Work; and shall incorporate them into the Work, including reasonable adjustments to the design location (including minor relocations) of the existing or new installations. Contractor shall take immediate action to restore any in service installations damaged by Contractor's operations.
- B. Prior to performing Work at the Site, Contractor shall lay out the locations of Underground Facilities that are to remain in service and other significant known underground installations indicated by the

Underground Facilities Data. Contractor shall further locate, by carefully excavating with small equipment, potholing and principally by hand, all such utilities or installations that are to remain and that are subject to damage. If additional utilities whose locations are unknown are discovered, Contractor shall immediately report to Owner for disposition of the same. Additional compensation or extension of time on account of utilities not shown or otherwise brought to Contractor's attention, including reasonable action taken to protect or repair damage, shall be determined as provided in this Document 00 7200.

- C. If during construction, an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated in the materials supplied by Owner for bidding or in information on file at USA or otherwise reasonably available to Contractor, then Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby (and in no event later than seven Days), and prior to performing any Work in connection therewith (except in an emergency), identify the owner of such Underground Facility and give written notice to that owner and to Owner. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.
- D. The cost of all of the following will be included in the Contract Sum and Contractor shall have full responsibility for (a) reviewing and checking all available information and data including, but not limited to, information made available for bidding and information on file at USA; (b) locating all Underground Facilities shown or indicated in the Contract Documents, available information, or indicated by visual observation including, but not limited to, and by way of example only, engaging qualified locating services and all necessary backhoeing and potholing; (c) coordination of the Work with the owners of such Underground Facilities during construction; and (d) the safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the Work.
- E. Consistent with California Government Code §4215, as between Owner and Contractor, Owner will be responsible for the timely removal, relocation, or protection of existing main or trunk line utility facilities located on the Site only if such utilities are not identified in the Contract Documents or information made available for bidding. Owner will compensate for the cost of locating and repairing damage not due to Contractor's failure to exercise reasonable care, removing and relocating such main or trunk line utility facilities not indicated in the Contract Documents or information made available for bidding with reasonable accuracy, and equipment on the Project necessarily idled during such Work. Contractor shall not be assessed liquidated damages for delay in completion of the Project, when such delay was caused by the failure of Owner or the utility to provide for removal or relocation of such utility facilities.

13.03 Concealed Or Unknown Conditions

- A. If either of the following conditions is encountered at Site when digging trenches or other excavations that extend deeper than four feet below the surface, Contractor shall give a written Notice of Differing Site Conditions to Owner promptly before conditions are disturbed, except in an emergency as set forth in this Document 00 7200, and in no event later than seven Days after first observance of:
 - 1. Subsurface or Latent physical conditions which differ materially from those indicated in the Contract Documents; or
 - 2. Unknown physical conditions of an unusual nature or which differ materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents.
- B. In response to Contractor's Notice of Differing Site Conditions under this Paragraph, Owner will investigate the identified conditions, and if they differ materially and cause increase or decrease in Contractor's cost of, or time required for, performance of any part of the Work, Owner will negotiate the appropriate change order following the procedures set forth in the Contract Documents. If Owner determines that physical conditions at the Site are not Latent or are not materially different from those indicated in Contract Documents or that no change in terms of the Contract Documents

is justified, Owner will so notify Contractor in writing, stating reasons (with Contractor retaining its rights under Article 12 of this Document 00 7200.)

- C. Contractor shall not be entitled to any adjustment in the Contract Sum or Contract Time regarding claimed Latent or materially different Site conditions (whether above or below grade) if Contractor knew or should have known of the existence of such conditions at the time Contractor submitted its Bid, failed to give proper notice, or relied upon information, conclusions, opinions or deductions of the kind that the Contract Documents preclude reliance upon.
- D. Regarding Underground Facilities, Contractor shall be allowed an increase in the Contract Sum or an extension of the Contract Time, or both, to the extent that they are attributable to the existence of any Underground Facility that is owned and was built by Owner only where the Underground Facility:
 - 1. Was not shown or indicated in the Contract Documents or in the information supplied for bidding purposes or in information on file at USA; and
 - 2. Contractor did not know of it; and
 - 3. Contractor could not reasonably have been expected to be aware of it or to have anticipated it from the information available. (For example, if surface conditions such as pavement repairs, valve covers, or other markings, indicate the presence of an Underground Facility, then an increase in the Contract Sum or an extension of the Contract Time will not be due, even if the Underground Facility was not indicated in the Contract Documents, in the information supplied to Contractor for bidding purposes, in information on file at USA, or otherwise reasonably available to Contractor.)
- E. Contractor shall bear the risk that Underground Facilities not owned or built by Owner may differ in nature or locations shown in information made available by Owner for bidding purposes, in information on file at USA, or otherwise reasonably available to Contractor. Underground Facilities are inherent in construction involving digging of trenches or other excavations on Owner's Project, and Contractor is to apply its skill and industry to verify the information available.
- F. Contractor's compensation for claimed Latent or materially different Site conditions shall be limited to the actual, reasonable, incremental increase in cost of that portion of the Work, resulting from the claimed Latent or materially different Site conditions. Such calculation shall take into account the estimated value of that portion of the Work and the actual value of that portion of the Work, using for guidance Contractor's or its subcontractor's bid amount and actual amounts incurred for that portion of the Work and the reasonable expectation (if any) of differing or difficult site conditions in the Work area based on the available records and locale of the Work. For example, if Contractor excavates in an area unexpected, then such costs would be recoverable entirely; while if Contractor extends an existing excavation, then such costs would be recoverable if the resulting excavation costs in that work area exceeded the reasonable expectations therefore.

13.04 Notice Of Hazardous Waste Or Materials Conditions

- A. Contractor shall give a written Notice of Hazardous Materials Condition to Owner promptly, before any of the following conditions are disturbed (except in an emergency as set forth in this Document 00 7200), and in no event later than 24 hours after first observance of any:
 - 1. Material that Contractor believes may be hazardous waste or hazardous material, as defined in Section 25117 of the Health and Safety Code (including, without limitation, Asbestos, lead, PCBs, petroleum and related hydrocarbons, and radioactive material) that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law ("hazardous material"); or
 - 2. Other material that may present an imminent substantial danger to persons or property exposed thereto in connection with Work at the Site ("other materials").
- B. Except as otherwise provided in the Contract Documents or as provided by applicable law, Contractor shall not be required to give any notice for the disturbance or observation of any such hazardous materials or other materials where such matter is disturbed or observed as part of the scope of Work under the Contract Documents (such as hazardous waste or hazardous material

- investigation, remediation or disposal activities which are identified as the subject of Work under the Contract Documents), where Contractor complies with all requirements in the Contract Documents and applicable law respecting such materials.
- C. Contractor's Notice of Hazardous Materials Condition shall indicate whether the hazardous materials or other materials were shown or indicated in the Contract Documents to be within the scope of Work, and whether the hazardous materials or other materials were brought to the Site by Contractor, its Subcontractors, suppliers, or anyone else for whom Contractor is responsible.
 - D. Contractor shall not be entitled to any adjustment in the Contract Sum or Contract Time regarding claimed hazardous waste or materials if:
 - 1. Contractor knew of the existence of such hazardous materials or other materials at the time Contractor submitted its Bid; or
 - 2. Contractor should have known of the existence of such hazardous material or other materials as a result of its having the responsibility to obtain additional or supplementary examinations, investigation, explorations, tests, studies, and data concerning the conditions at or contiguous to the Site prior to submitting its Bid; or
 - 3. Contractor failed to give the written notice within the required timeframe set forth below.
 - E. If Owner determines that conditions involve hazardous materials or other materials and that a change in Contract Document terms is justified, Owner will issue either a Request for Proposal or Construction Change Directive under the procedures described in the Contract Documents. If Owner determines that conditions do not involve hazardous materials or other materials or that no change in Contract Document terms is justified, Owner will notify Contractor in writing, stating the reasons for its determination.
 - F. In addition to the parties' other rights under this Document 00 7200, if Contractor does not agree to resume Work based on a reasonable belief that it is unsafe, or does not agree to resume Work under special conditions, Owner may order the disputed portion of Work deleted from the Work, or performed by others, or Owner may invoke its right to terminate Contractor's right to proceed under the Contract Documents in whole or in part, for convenience or for cause as the facts may warrant.
 - G. If Contractor does not agree with any Owner determination of any adjustment in the Contract Sum or Contract Time under this Article, Contractor may make a claim as provided in Article 12 of this Document 00 7200.

ARTICLE 14 - LEGAL AND MISCELLANEOUS

14.01 Laws And Regulations

- A. Contractor shall keep fully informed of and shall comply with all laws, ordinances, regulations and orders of any properly constituted authority affecting the Contract Documents, Work and persons connected with Work, and shall protect and indemnify Owner and its officers, employees, consultants and agents against any claim or liability, including attorney's fees, arising from or based on violation of law, ordinance, regulation or order, whether by Contractor or by Subcontractors, employees or agents. Authorized persons may at any time enter upon any part of Work to ascertain compliance of all applicable laws, ordinances, regulations and orders.

14.02 Permits And Taxes

- A. Contractor shall procure all permits and licenses applicable to the Work (including environmental matters to the extent applicable); pay all charges and fees, including fees for street opening permits; comply with, implement and acknowledge effectiveness of all permits; initiate and cooperate in securing all required notifications or approvals therefore; and give all notices necessary and incident to due and lawful prosecution of Work, unless otherwise provided herein. Owner will pay applicable building permits, sanitation and water fees for the completed construction, except as otherwise provided in the Contract Documents. Contractor shall pay all sales and/or use taxes levied on materials, supplies, or equipment purchased and used on or incorporated into Work, and all other taxes properly assessed against equipment or other property used in connection with Work, without any increase in the Contract Sum. Contractor shall make necessary arrangements

with proper authorities having jurisdiction over roads, streets, pipelines, navigable waterways, railroads, and other works in advance of operations, even where Owner may have already obtained permits for the Work.

14.03 Communications And Information Distribution

- A. All communications recognized under the Contract Documents shall be in writing, in the form of a serialized document, by type of communication. For example, RFI's shall be serialized beginning with RFI No. 1; payment applications shall be serialized beginning with Payment Application No. 1, submittals shall be serialized per specification section and transmitted with transmittal sheets beginning with Transmittal No. 1; and correspondence shall be serialized beginning with letter No. 1. Contractor may propose other record management and identification systems or protocols, intended to facilitate orderly transmittal of project information, storage and retrieval of such information, which Owner will review consistent with these stated objectives, and accept or reject in its sole discretion.
- B. Documents Requiring Signatures. All documents requiring signatures for approval prior to implementing action, as stipulated in other portions of Contract Documents, shall require a manually signed, serialized letter delivered to the other party at its address for notice otherwise specified in the Contract Documents, either personally or by mail.
- C. Electronic data transfer of such correspondence will serve to expedite preliminary concurrence of information, only. Receipt of "hard copy" signature on forms is required prior to implementing action or work as the conditions may require. For example, change orders and authorizations for extra cost, require signatures. A party may acknowledge receipt of PDF copies of required correspondence by e-mail, but in the absence of such acknowledgment, mail or personal delivery is required.
- D. All emails shall be copied to Owner's and Contractor's Project Representative. Owner reserves the right to preclude e-mail communication, in whole or in part, as Project needs may require. Communication between Owner and Contractor shall not be via Twitter, Facebook, or other types of instant text message systems. Any such communications shall be inadmissible for any purpose related to this Contract.

14.04 Suspension Of Work

- A. Owner may, without cause, order Contractor in writing to suspend, delay or interrupt Work in whole or in part for such period of time as Owner may determine. An adjustment shall be made for increases in cost of performance of Work of the Contract Documents caused by any such suspension, delay or interruption, calculated using the measures set forth in Section 01 2600 (Modification Procedures). No adjustment shall be made to extent that performance is, was or would have been so suspended, delayed or interrupted by another cause for which Contractor is responsible.

14.05 Termination Of Contract For Cause

- A. The Contractor shall be in default of the Contract Documents and Owner may terminate the Contractor's right to proceed under the Contract Documents, for cause, in whole or in part, should the Contractor commit a material breach of the Contract Documents and not cure such breach within ten (10) calendar days of the date of notice from Owner to the Contractor demanding such cure; or, if such breach is curable but not curable within such ten (10) day period, within such period of time as is reasonably necessary to accomplish such cure. (In order for the Contractor to avail itself of a time period in excess of 10 calendar days, the Contractor must provide Owner within the ten (10) day period with a written plan acceptable to Owner that demonstrates actual resources, personnel and a schedule to promptly to cure said breach, and then diligently commence and continue such cure according to the written plan).
- B. In the event of termination by Owner for cause as provided herein, the Contractor shall deliver to Owner possession of the Work in its then condition, including but not limited to, all designs, engineering, Project records, cost data of all types, plans and specifications and contracts with vendors and subcontractors, all other documentation associated with the Project, and all

construction supplies and aids dedicated solely to performing the Work which, in the normal course of construction, would be consumed or only have salvage value at the end of the construction period. The Contractor shall remain fully liable for the failure of any Work completed and materials and equipment provided through the date of such termination to comply with the provisions of the Contract Documents. The provisions of this Section shall not be interpreted to diminish any right which Owner may have to claim and recover damages for any breach of the Contract Documents or otherwise, but rather, the Contractor shall compensate Owner for all loss, cost, damage, expense, and/or liability suffered by Owner as a result of such termination and/or failure to comply with the Contract Documents.

- C. In the event a termination for cause is later determined to have been made wrongfully or without cause, then the termination shall be treated as a termination for convenience, and the Contractor shall have no greater rights than it would have had following a termination for convenience. Any Contractor claim arising out of a termination for cause shall be made in accord with Article 12 herein. No other loss, cost, damage, expense or liability may be claimed, requested or recovered by the Contractor.

14.06 Termination Of Contract For Convenience

- A. Owner may terminate performance of the Work under the Contract Documents in accordance with this clause in whole, or from time to time in part, whenever Owner shall determine that termination is in Owner's best interest. Termination shall be effected by Owner delivering to the Contractor notice of termination specifying the extent to which performance of the Work under the Contract Documents is terminated, and the effective date of the termination.
- B. Contractor shall comply strictly with Owner's direction regarding the effective date of the termination, the extent of the termination, and shall stop work on the date and to the extent specified.
- C. Contractor shall be entitled to a total payment on account of the Contract work so terminated measured by (i.) the actual cost to Contractor of Work actually performed, up to the date of the termination, with profit and overhead limited to twelve percent (12%) of actual cost of work performed, up to but not exceeding the actual contract value of the work completed as measured by the Schedule of Values and Progress Schedule, (ii.) offset by payments made and other contract credits. In connection with any such calculation, however, Owner shall retain all rights under the Contract Documents, including but not limited to claims, indemnities, or setoffs.
- D. Under no circumstances may Contractor recover legal costs of any nature, nor may Contractor recover costs incurred after the date of the termination.

14.07 Contingent Assignment Of Subcontracts

- A. Contractor hereby assigns to Owner each Subcontract for a portion of the Work, provided that:
 1. The assignment is effective only after Owner's termination of Contractor's right to proceed under the Contract Documents (or portion thereof relating to that Subcontract) as set forth herein.
 2. The assignment is effective only for the Subcontracts which Owner expressly accepts by notifying the Subcontractor in writing;
 3. The assignment is subject to the prior rights, if any, of the Surety, obligated by Document 00 6113.13 (Construction Performance Bond) provided under the Contract Documents, where the Surety exercises its rights to complete the Contract;
 4. After the effectiveness of an assignment, Contractor shall, at its sole cost and expense (except as otherwise provided in this Document 00 7200), sign all instruments and take all actions reasonably requested by Owner to evidence and confirm the effectiveness of the assignment in Owner; and
 5. Nothing in this Paragraph shall modify or limit any of Contractor's obligations to Owner arising from acts or omissions occurring before the effectiveness of any Subcontract assignment, including but not limited to all defense, indemnity and hold-harmless obligations arising from or related to the assigned Subcontract.

14.08 Remedies And Contract Integration

- A. Subject to Contract Documents provisions regarding Contractor claims, claim review, and claim resolution, and subject to the limitations therein, the exclusive jurisdiction and venue for resolving all claims, counter claims, disputes and other matters in question between Owner and Contractor arising out of or relating to Contract Documents, any breach thereof or the Project shall be the applicable court of competent jurisdiction located in the State and County where the Project is located. All Owner remedies provided in the Contract Documents shall be taken and construed as cumulative and not exclusive; that is, in addition to each and every other remedy herein provided; and in all instances Owner shall have any and all other equitable and legal rights and remedies which it would have according to law.
- B. The Contract Documents, any Contract Modifications and Change Orders, shall represent the entire and integrated agreement between Owner and Contractor regarding the subject matters hereof and thereof and shall constitute the exclusive statement of the terms of the parties' agreement. The Contract Documents, and any Contract Modifications and Change Orders, shall supersede any and all prior negotiations, representations or agreements, written or oral, express or implied, that relate in any way to the subject matter of the Contract Documents or written Modifications. Owner and Contractor represent and agree that, except as otherwise expressly provided in the Contract Documents, they are entering into the Contract Documents and any subsequent written Modification in sole reliance upon the information set forth or referenced in the Contract Documents or Contract Modifications; the parties are not and will not rely on any other information, which shall be inadmissible in any proceeding to enforce these documents.
- C. Either party's waiver of any breach or failure to enforce any of the terms, covenants, conditions or other provisions of the Contract Documents at any time shall not in any way affect, limit, modify or waive that party's right thereafter to enforce or compel strict compliance with every term, covenant, condition or other provision hereof, any course of dealing or custom of the trade or oral representations notwithstanding.
- D. Neither acceptance of the whole or any part of Work by Owner nor any verbal statements on behalf of Owner or its authorized agents or representatives shall operate as a waiver or modification of any provision of the Contract Documents, or of any power reserved to Owner herein nor any right to damages provided in the Contract Documents.

14.09 Interpretation.

- A. Should any part, term or provision of this Agreement or any of the Contract Documents, or any document required herein or therein to be executed or delivered, be declared invalid, void or unenforceable, all remaining parts, terms and provisions shall remain in full force and effect and shall in no way be invalidated, impaired or affected thereby. If the provisions of any law causing such invalidity, illegality or unenforceability may be waived, they are hereby waived to the end that this Agreement and the Contract Documents may be deemed valid and binding agreements, enforceable in accordance with their terms to the greatest extent permitted by applicable law. In the event any provision not otherwise included in the Contract Documents is required to be included by any applicable law, that provision is deemed included herein by this reference (or, if such provision is required to be included in any particular portion of the Contract Documents, that provision is deemed included in that portion).
- B. Contract Documents shall not be construed to create a contractual relationship of any kind between (1) Project Manager or any Owner's representative and Contractor; (2) Owner and/or its Representatives and a Subcontractor, sub-Subcontractor, or supplier of any Project labor, materials, or equipment; or (3) between any persons or entities other than Owner and Contractor.

14.10 Patents

- A. Fees or claims for any patented invention, article or arrangement that may be used upon or in any manner connected with performance of the Work or any part thereof shall be included in the Bid price for doing the Work. Contractor shall defend, indemnify and hold harmless Owner and each of its officers, employees, consultants and agents, including, but not limited to, the Board and each Owner's Representative, from all damages, claims for damages, costs or expenses in law or equity, including attorney's fees, arising from or relating to any claim that any article supplied or to be supplied under the Contract Documents infringes on the patent rights, copyright, trade name, trademark, service mark, trade secret or other intellectual property right of any person or persons or that the person or entity supplying the article does not have a lawful right to sell the same. Such costs or expenses for which Contractor agrees to indemnify and hold harmless the above indemnities include but are not limited to any and all license fees, whether such fees are agreed by any indemnitee or ordered by a court or administrative body of any competent jurisdiction.

14.11 Substitution For Patented And Specified Articles

- A. Except as noted specifically in the instructions to Bidders or in Contract Documents, whenever in Specifications, material or process is designated by patent or proprietary name or by name of manufacturer, such designation shall be deemed to be used for purpose of facilitating description of material and process desired, and shall be deemed to be followed by the words "or Approved Equal" and Contractor may offer any substitute material or process that Contractor considers "equal" in every respect to that so designated and if material or process offered by Contractor is, in opinion of Owner, Equal in every respect to that so designated, its use will be approved. However, Contractor may utilize this right only by timely submitting Document 00 6325 (Substitution Request Form) as provided in Document 00 2113 (Instructions to Bidders). A substitution will be approved only if it is a true "or equal" item in every aspect of its design and quality, including but not limited to its dimensions, weights, service requirements, durability, functioning, impact on contiguous construction elements, overall schedule and design.

14.12 Interest Of Public Officers

- A. No representative, officer, or employee of Owner no member of the governing body of the locality in which the Project is situated, no member of the locality in which Owner was activated, and no other public official of such locality or localities who exercises any functions or responsibilities with respect to the Project, during the tenure of the official or for one year thereafter, shall, as principal, agent, attorney or otherwise, be directly or indirectly interested, in the Contract Documents or the proceeds thereof.

14.13 Limit Of Liability

- A. Owner, and each of its officers, board members, employees, consultants and agents including, but not limited to, project manager and each other owner representative, shall have no liability to contractor for special, consequential, or incidental damages, except to the limited extent that these contract documents or applicable public contracting statutes may specify their recovery.

ARTICLE 15 - WORKING CONDITIONS AND PREVAILING WAGES

15.01 Use Of Site/Sanitary Rules

- A. All portions of the Work shall be maintained at all times in neat, clean and sanitary condition. Contractor shall furnish toilets for use of Contractor's and Subcontractors' employees on the Site where needed, and their use shall be strictly enforced. All toilets shall be properly secluded from public observation, and shall be located, constructed and maintained subject to Owner's approval.
- B. Contractor shall confine construction equipment, the storage of materials and equipment and the operations of workers to the Site and land areas identified in and permitted by Contract Documents and other land and areas permitted by applicable laws and regulations, rights of way, permits and easements or as designated by Owner, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment. Contractor shall assume full responsibility

for any damage to any such land or area, any improvement located thereon, or to Owner or occupant thereof resulting from the performance of Work.

- C. During the progress of the Work, Contractor shall keep the Site and the Project free from accumulations of waste materials, rubbish and other debris resulting from the Work. At the completion of the Work, Contractor shall clean the site, remove all waste materials, rubbish and debris from and about the Site as well as all tools, appliances, construction equipment and machinery and surplus materials. Contractor shall leave the premises clean and ready for occupancy by Owner at Substantial Completion of Work. Contractor shall restore to original condition all property not designated for alteration by Contract Documents.
- D. Contractor shall not load nor permit any part of any structure or pavement to be loaded in any manner that will endanger the structure or pavement, nor shall Contractor subject any part of Work or adjacent property to stresses or pressures that will endanger it. Contractor shall conduct all necessary existing conditions investigation regarding structural, mechanical, electrical or any other system existing, shall perform Work consistent with such existing conditions, and shall have full responsibility for insufficiencies or damage resulting from insufficiencies of existing systems, equipment or structures to accommodate performing the Work.

15.02 Protection Of Work, Persons, And Property

- A. Contractor shall be responsible for initiating, maintaining and supervising all safety and site security precautions and programs in connection with Work, and shall develop and implement a site security and safety plan throughout construction. Contractor shall comply with all safety requirements specified in any safety program established by Owner, or required by state, federal or local laws and ordinances. Contractor shall be responsible for all theft or damage to Work, property or structures, and all injuries to persons, either on the Site or constituting the Work (e.g., materials in transit), arising from the performance of Work of the Contract Documents from a cause.
- B. Contractor shall comply with all applicable laws and regulations of any public body having jurisdiction for safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify Owners of adjacent property and of Underground Facilities and utility Owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation and replacement of their property.
- C. Contractor shall remedy all damage, injury or loss to any property referred to above in this Article, caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, supplier, or any other person or organization directly or indirectly employed by any of them to perform or furnish any Work or anyone for whose acts any of them may be liable. Contractor's duties and responsibility for safety and for protection of Work shall continue until such time as all the Work is completed and Final Acceptance of the Work. Owner and its agents do not assume any responsibility for collecting any indemnity from any person or persons causing damage to Contractor's Work.
- D. Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.
- E. Owner may, at its option, retain such moneys due under the Contract Documents as Owner deems necessary until any and all suits or claims against Contractor for injury to persons or property shall be settled and Owner receives satisfactory evidence to that effect.
- F. Work within the right-of-way lines of the city and/or Owner and/or State shall be done in accordance with the standards and specifications of the controlling agency. Permit for such work shall be obtained and paid for by the Contractor before executing the work within such right-of-ways.

15.03 Responsibility For Safety And Health

- A. Contractor shall ensure that its and each tier of Subcontractors' employees, agents and invitees comply with applicable health and safety laws while at the Site. These laws include the Occupational Safety and Health Act of 1970 and rules and regulations issued pursuant thereto, and Owner's safety regulations as amended from time to time. Contractor shall comply with all Owner directions regarding protective clothing and gear.

- B. Contractor shall be fully responsible for the safety of its and its Subcontractors' employees, agents and invitees on the Site. Contractor shall notify Owner, in writing, of the existence of hazardous conditions, property or equipment at the Site that are not under Contractor's control. Contractor shall be responsible for taking all the necessary precautions against injury to persons or damage to the property of Contractor, Subcontractors or persons from recognized hazards until the responsible party corrects the hazard.
- C. Contractor shall confine all persons acting on its or its Subcontractors' behalf to that portion of the Site where Work under the Contract Documents is to be performed, Owner-designated routes for ingress and egress thereto, and any other Owner-designated area. Except those routes for ingress and egress over which Contractor has no right of control, within such areas, Contractor shall provide safe means of access to all places at which persons may at any time have occasion to be present.

15.04 Emergencies

- A. In emergencies affecting the safety or protection of persons or Work or property at the Site or adjacent thereto, Contractor, without special instruction or authorization from Owner, is obligated to act to prevent threat and damage, injury or loss, until directed otherwise by Owner. Contractor shall give Owner prompt written notice if Contractor believes that any significant changes in Work or variations from Contract Documents have been caused thereby. If Owner determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Change Order or Construction Change Directive will be issued to document the consequences of such action.

15.05 Use Of Roadways And Walkways

- A. Contractor shall not unnecessarily interfere with use of any roadway, walkway or other facility for vehicular or pedestrian traffic. Before beginning any interference and only with Owner's prior concurrence, Contractor may provide detour or temporary bridge for traffic to pass around or over the interference, which Contractor shall maintain in satisfactory condition as long as interference continues. Unless otherwise provided in the Contract Documents, Contractor shall bear the cost of these temporary facilities.

15.06 Nondiscrimination

- A. No person or entity shall discriminate in the employment of persons upon public works because of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sexual preference, or gender of such persons, except as provided in Section 12940 of the California Government Code. Every contractor for public works violating the provisions of Section 1735 of the California Labor Code is subject to all the penalties imposed for a violation of Chapter 1, Part 7, Division 2 of the California Labor Code.

15.07 Registration

- A. Each bidder and any subcontractor listed in a bid proposal pursuant to California Public Contract Code Section 4104, must be currently registered with the Department of Industrial Relations and qualified to perform public work consistent with California Labor Code section 1725.5, except in limited circumstances as referenced in California Labor Code section 1771.1(a). No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

15.08 Prevailing Wages And Working Hours

- A. Contractor shall pay to persons performing labor in and about Work provided for in the Contract Documents an amount equal to or more than the general prevailing rate of per diem wages for (1) work of a similar character in the locality in which the Work is performed and (2) legal holiday and overtime work in said locality. The per diem wages shall be an amount equal to or more than the stipulated rates contained in a schedule that has been ascertained and determined by the Director

of the State Department of Industrial Relations and Owner to be the general prevailing rate of per diem wages for each craft or type of workman or mechanic needed to execute this Contract. Contractor shall also cause a copy of this determination of the prevailing rate of per diem wages to be posted at each Site.

- B. Contractor shall forfeit, as a penalty to Owner, Fifty Dollars (\$50.00) for each laborer, workman, or mechanic employed in performing labor in and about the Work provided for in the Contract Documents for each Day, or portion thereof, that such laborer, workman or mechanic is paid less than the said stipulated rates for any Work done under the Contract Documents by him or her or by any Subcontractor under him or her, in violation of Articles 1 and 2 of Chapter 1 of Part 7 of Division II of the California Labor Code. The sums and amounts which shall be forfeited pursuant to this Paragraph and the terms of the California Labor Code shall be withheld and retained from payments due to Contractor under the Contract Documents, pursuant to this Document 00 7200 and the California Labor Code, but no sum shall be so withheld, retained or forfeited except from the final payment without a full investigation by either the State Department of Industrial Relations or by Owner. The Labor Commissioner pursuant to California Labor Code §1775 shall determine the final amount of forfeiture.
- C. Contractor shall insert in every subcontract or other arrangement which Contractor may make for performance of Work or labor on Work provided for in the Contract, provision that Subcontractor shall pay persons performing labor or rendering service under subcontract or other arrangement not less than the general prevailing rate of per diem wages for work of a similar character in the locality in which the Work is performed, and not less than the general prevailing rate of per diem wages for holiday and overtime work fixed in the California Labor Code.
- D. Contractor stipulates that it shall comply with all applicable wage and hour laws, including without limitation, California Labor Code §§ 1776 and 1810-1815. Failure to so comply shall constitute a default under this Contract.
- E. Contractor and its Subcontractors shall be responsible for compliance with Labor Code §§ 1810-1815.
 - 1. Eight hours of labor performed in execution of the Contract constitutes a legal day's work. The time of service of any workman employed on the Project is limited and restricted to 8 hours during any one calendar day, and 40 hours during any one calendar week.
 - 2. Contractor and its Subcontractors shall keep an accurate record showing the name of and actual hours worked each calendar day and each calendar week by each worker employed by him or her in connection with the Project. The record shall be kept open at all reasonable hours to the inspection Owner and to the Division of Labor Standards Enforcement.
 - 3. Contractor or its Subcontractors shall, as a penalty to Owner, forfeit twenty-five dollars (\$25) for each worker employed in the execution of the Contract Documents by the respective Contractor or Subcontractor for each calendar day during which the worker is required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of Labor Code §§ 1810-1815.
 - 4. Work performed on the Project by employees of Contractor or its Subcontractors in excess of 8 hours per day, and 40 hours during any one week, shall be permitted upon compensation for all hours worked in excess of 8 hours per day at not less than 1 1/2 times the basic rate of pay.
- F. Contractor and its Subcontractors shall be responsible for compliance with Labor Code Section 1776.
 - 1. Contractor and Subcontractors must keep accurate payroll records, showing the name, address, social security number, work classification, straight time and overtime hours worked each day and week, and the actual per diem wages paid to each journeyman, apprentice, worker, or other employee employed by him or her in connection with the Work of the Contract Documents. Each payroll record shall contain or be verified by a written declaration as required by Labor Code Section 1776.

2. The payroll records enumerated above must be certified and shall be available for inspection at all reasonable hours at the principal office of the Contractor as required by Labor Code Section 1776.
 - a. Contractor shall inform Owner of the location of records enumerated above, including the street address, city and county, and shall, within five working days, provide a notice of a change of location and address.
 - b. Contractor or Subcontractor has 10 days in which to comply subsequent to receipt of a written notice requesting the records enumerated above. In the event that the Contractor or Subcontractor fails to comply with the ten-day period, he or she shall, as a penalty to Owner on whose behalf the contract is made or awarded, forfeit \$100.00 for each calendar day, or portion thereof, for each worker, until strict compliance is effectuated. Upon the request of the Division of Apprenticeship Standards or the Division of Labor Standards Enforcement, these penalties shall be withheld from progress payments then due. Contractor is not subject to a penalty assessment pursuant to this Paragraph due to the failure of a Subcontractor to comply with this Paragraph.
3. Contractor at Owner's request shall, also deliver certified payrolls to Owner with each Application for Payment as set forth above in this Document 00 7200 (General Conditions).

15.09 Compliance Monitoring By Department of Industrial Relations

- A. This Project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

15.010 Environmental Controls

- A. Contractor shall comply with all rules, regulations, ordinances, and statutes that apply to any Work performed under the Contract Documents including, without limitation, any toxic, water, stormwater management and soil pollution controls and air pollution controls specified in California Government Code §11017. Contractor shall be responsible for insuring that Contractor's Employees, Subcontractors, and the public are protected from exposure to airborne hazards or contaminated water, soil, or other toxic materials used during or generated by activities on the Site or associated with the Project.

15.011 Shoring Safety Plan

- A. Any conflict between this Paragraph and Division 2 of the Specifications shall be resolved in favor of the most stringent requirement.
- B. At least five Days in advance of any excavation five feet or more in depth, Contractor shall submit to Owner a detailed plan showing the shoring, bracing and sloping design (including calculations) and other provisions to be made for worker protection from the hazard of caving ground during the excavation, as required by California Labor Code §6705. A civil or structural engineer registered in California shall prepare and sign any plan that varies from the shoring system standards established by the State Construction Safety Orders.
- C. During the course of Work, Contractor shall be responsible for determining where sloping, shoring, and/or bracing is necessary and the adequacy of the design, installation, and maintenance of all shoring and bracing for all excavation, including any excavation less than five feet in depth. Contractor will be solely responsible for any damage or injuries that may result from excavating or trenching. Owner's acceptance of any drawings showing the shoring or bracing design or Work schedule shall not relieve Contractor of its responsibilities under this Paragraph.
- D. Appoint a qualified supervisory employee who shall be responsible to determine the sloping or shoring system to be used depending on local soil type, water table, stratification, depth, etc.

END OF DOCUMENT

DOCUMENT 00 7316

SUPPLEMENTARY CONDITIONS – INSURANCE AND INDEMNIFICATION

ARTICLE 1 - INSURANCE

- 1.01** At or before the date specified in Document 00 2113 (Instructions to Bidders), Contractor shall furnish to the City of Seaside ("Owner") satisfactory proof that Contractor has taken out for the entire period covered by the Contract the following classes of insurance in the form and with limits and deductibles specified below, unless otherwise specified in Contract Documents:
- A. Comprehensive General Liability Insurance covering claims for personal injury, bodily injury and property damage arising out of the Work and in a form providing coverage not less than that of a Standard Commercial General Liability Insurance policy ("Occurrence Form"). Such insurance shall provide for all operations and include independent contractors, products liability, completed operations for one year after Final Completion and acceptance of the final payment for the Work, contractual liability, and coverage for explosion, collapse, and underground hazards. The limits of such insurance shall not be coverage of less than **\$2,000,000** each occurrence, **\$4,000,000** general aggregate limit, and **\$4,000,000** aggregate for products and completed operations. The policies shall be endorsed to provide Broad Form Property Damage Coverage.
 - B. Comprehensive Automobile Liability Insurance covering all owned, non-owned, and hired vehicles. Such insurance shall provide coverage not less than the standard Comprehensive Automobile Liability policy with limits not less than **\$1,000,000** each person Bodily Injury, **\$1,000,000** each occurrence Bodily Injury, and **\$1,000,000** each occurrence Property Damage.
 - C. All-Risk Course of Construction Insurance including damage to property owned by Owner, Contractor or third parties caused by fire. Insurance shall be in the amount of 100 percent of the completed value of the Work to be performed under this Contract. Deductible shall not exceed **\$10,000.00**. Each loss shall be borne by Contractor.
 - D. Workers' Compensation Insurance for all persons whom the Contractor may employ in carrying out Work contemplated under Contract Documents, in accordance with the Act of Legislature of State of California, known as "Workers' Compensation Insurance and Safety Act," approved May 26, 1913, and all acts amendatory or supplemental thereto, in the statutory amount.
 - E. **[Option]** Environmental Impairment Liability Insurance covering bodily injury and property damage utilizing an occurrence policy form, in an amount no less than **[\$1,000,000]** combined single limit for each occurrence.
- 1.02** All policies of insurance shall be placed with insurers acceptable to Owner. The insurance underwriter(s) for all insurance policies except Workers' Compensation shall have an A. M. Best Company rating of **[A-, VIII]** or better, unless otherwise specified in Contract Documents. Required minimum amounts of insurance may be increased should conditions of Work, in opinion of Owner, warrant such increase. Contractor shall increase required insurance amounts upon direction by Owner.
- 1.03** Required Endorsements: The policies required under Document 00 7200 (General Conditions) and this Document 00 7316 shall be endorsed as follows:
- A. Name Owner, its elected and/or appointed governing body and boards, employees, representatives, consultants, and agents, and Project Manager as additional insureds, but only with respect to liability arising out of the activities of the named insured.
 - B. Each such policy shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limit of the insurance company's liability required hereunder. Should any of the policies identified herein contain a "cross-suits" exclusion, such exclusion must not apply to any additional insureds.
 - C. Insurance shall be primary to Owner and no other insurance or self-insured retention carried or held by Owner shall be called upon to contribute to a loss covered by insurance for the named insured.

- 1.04 Certificates of insurance and endorsements shall have clearly typed thereon Owner Contract Number and title of Contract Documents. Written notice of cancellation, non-renewal, or reduction in coverage of any policy shall be mailed to Owner (Attention: Owner Risk Manager / Purchasing Agent) at the address listed in Document 00 5200 (Agreement), 60 Days in advance of the effective date of the cancellation, non-renewal, or reduction in coverage. Written notice of cancellation for non-payment shall be mailed within 10 Days of cancellation. Contractor shall maintain insurance in full force and effect during entire period of performance of Contract Documents. Contractor shall keep insurance in force during warranty and guarantee periods, except that Contractor may discontinue All-Risk Course of Construction Insurance after Final Payment. At time of making application for extension of time, and during all periods exceeding the Contract Time resulting from any cause, Contractor shall submit evidence that insurance policies will be in effect during requested additional period of time. Upon Owner's request, Contractor shall submit to Owner, within 30 Days, copies of the actual insurance policies or renewals or replacements.
- 1.05 Contractor shall pay all insurance premiums, including any charges for required waivers of subrogation or the endorsement of additional insureds. If Contractor fails to maintain insurance, Owner may take out comparable insurance, and deduct and retain amount of premium from any sums due Contractor under Contract Documents.
- 1.06 If injury occurs to any employee of Contractor, Subcontractor or sub-subcontractor for which the employee, or the employee's dependents in the event of employee's death, is entitled to compensation from Owner under provisions of the Workers' Compensation Insurance and Safety Act, as amended, or for which compensation is claimed from Owner, Owner may retain out of sums due Contractor under Contract Documents, amount sufficient to cover such compensation, as fixed by the Act, as amended, until such compensation is paid, or until it is determined that no compensation is due. If Owner is compelled to pay compensation, Owner may, in its discretion, either deduct and retain from the Contract Sum the amount so paid, or require Contractor to reimburse Owner.
- 1.07 Nothing herein shall be construed as limiting in any way the extent to which Contractor or any Subcontractor may be held responsible for payment of damages resulting from their operations.
- 1.08 All Subcontractors shall maintain the same insurance required to be maintained by Contractor with respect to their portions of the Work unless otherwise indicated in Contract Documents, and Contractor shall cause the Subcontractors to furnish proof thereof to Owner within ten Days of Owner's request.
- 1.09 The following provisions apply to any licensed professional engaged by Contractor to perform portions of the Work ("Professional").
 - A. Each Professional shall maintain the following insurance, unless otherwise specified in Contract Documents:
 1. Professional Liability Insurance, insuring against professional errors and omissions arising from Professional's Work on the Project, in an amount not less than **[\$1,000,000]** combined single limit for each occurrence. If Professional cannot provide an occurrence policy, Professional shall provide insurance covering claims made as a result of performance of Work on this Project and shall maintain such insurance in effect for not less than two years following Final Completion of the Project.
 2. Professional shall satisfy all other provisions of this Document 00 7316 relating to that insurance, including without limitation providing required insurance certificates (containing the required endorsements) before commencing its Work on the Project.

ARTICLE 2 - RESPONSIBILITY OF CONTRACTOR AND INDEMNIFICATION

- 2.01** Owner and each of its officers, employees, consultants and agents including, but not limited to, the Board, Project Manager and each Owner's Representative, shall not be liable or accountable in any manner for loss or damage that may happen to any part of the Work; loss or damage to materials or other things used or employed in performing the Work; injury, sickness, disease, or death of any person; or damage to property resulting from any cause whatsoever except their sole negligence, willful misconduct or active negligence, attributable to performance or character of the Work, and Contractor releases all of the foregoing persons and entities from any and all such claims.
- 2.02** To the furthest extent permitted by law (including without limitation California Civil Code §2782), Contractor shall assume defense of, and indemnify and hold harmless, Owner and each of its officers, employees, consultants and agents, including but not limited to the Board, Project Manager and each Owner's Representative, from claims, suits, actions, losses and liability of every kind, nature and description, including but not limited to claims and fines of regulatory agencies and attorney's fees and consultant's fees, directly or indirectly arising out of, connected with or resulting from performance of the Work, failure to perform the Work, or condition of the Work which is caused in whole or part by any act or omission of Contractor, Subcontractors, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, resulting from any cause whatsoever except their sole negligence, willful misconduct or active negligence.
- 2.03** With respect to third-party claims against Contractor, Contractor waives any and all rights to any type of express or implied indemnity against Owner and each of its officers, employees, consultants and agents including, but not limited to Owner, the Board, Project Manager and each Owner's Representative. Owner shall provide timely notice to Contractor of any third-party claim relating to the Contract Documents, in accordance with Section 9201 of the California Public Contract Code.
- 2.04** Approval or purchase of any insurance contracts or policies shall in no way relieve from liability nor limit the liability of Contractor, its Subcontractors of any tier, or the officers or agents of any of them.
- 2.05** To the furthest extent permitted by law (including, without limitation, Civil Code §2782), the indemnities, releases of liability and limitations of liability, claims procedures, and limitations of remedy expressed throughout Contract Documents shall apply even in the event of breach of Contract, negligence (active or passive), fault or strict liability of the party(ies) indemnified, released, or limited in liability, and shall survive the termination, rescission, breach, abandonment, or completion of the Work or the terms of the Contract Documents. If Contractor fails to perform any of these defense or indemnity obligations, Owner may in its discretion back charge Contractor for Owner's costs and damages resulting therefrom and withhold such sums from progress payments or other Contract moneys which may become due.
- 2.06** The indemnities in the Contract Documents shall not apply to any indemnified party to the extent of its sole negligence or willful misconduct; nor shall they apply to Owner or other indemnified party to the extent of its active negligence.

END OF DOCUMENT

DOCUMENT 00 9113

ADDENDA

CONTRACT NUMBER xx-xx

CITY OF SEASIDE

FORT ORD MILITARY RESERVATION PROPERTY

DECONSTRUCTION AND DEMOLITION PROJECT

PHASE 1A

located in

SEASIDE, CALIFORNIA, 93955

[DOCUMENT TO BE COMPLETED AS ADDENDA DURING BID PERIOD]

END OF DOCUMENT

DIVISION 1 GENERAL REQUIREMENTS

SECTION 011100

SUMMARY

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes Summary of Work and Work Restrictions including:

1. Work Covered By Contract Documents
2. Bid Items
3. Time of Completion / Liquidated Damages
4. Work Sequence
5. Work Days and Hours
6. Shutdown for Discovery of Cultural Resources
7. Partial Occupancy/Utilization Requirements
8. Contractor Use of Site
9. Project Site Maintenance
10. Construction Staking and Monument Protection
11. Protection of Existing Structures and Underground Facilities
12. Actual Damages for Permit Violations
13. Protection of Existing Trees During Construction
14. Construction Water
15. Work Performed by the Owner
16. Conditions of Use
17. Contractor's Responsibilities

1.02 WORK COVERED BY CONTRACT DOCUMENTS

Work comprises of the construction of Owner's **Fort Ord Military Reservation Property Deconstruction and Demolition Project Phase 1A** in Seaside, California.

A. The Work of this Contract includes providing all materials, labor, and equipment required to complete the deconstruction and demolition of the following Fort Ord Military Reservation Property site:

1. Visitor Center (2,100-feet² building/structure) and adjacent parking lot (25,392-feet²).

This project includes the work to furnish all labor, services, material, tools, equipment, supplies, transportation, utilities, skills, and all other items and facilities necessary for the completion of the Fort Ord Military Reservation Property Deconstruction and Demolition Project. The Work generally consists of decontamination, deconstruction, demolition, removal, and proper disposal of all buildings, structures, parking lots, improvements, and select trees, shrubs, bushes, and vegetation at the Visitor Center (2,100 feet² building/structure) and adjacent parking lot (25,392 feet²). The deconstruction and demolition work shall include removal and disposal of the subject structures in their entirety to include roof structures, exterior walls, interior walls, concrete slabs and foundations, windows, doors, plumbing, mechanical, communications, and electrical systems. The site work includes removal and disposal of asphalt concrete parking lots, concrete, retaining walls, steps, excavation and backfill/fill, disconnection, capping, removal, and disposal of water, wastewater, gas, and electrical utilities, and rough grading for mitigating safety concerns and facilitating drainage.

The Work includes hazardous materials removal and proper disposal, including asbestos, lead-based paint and/or materials, lead-containing paint, universal waste, suspect polychlorinated biphenyls (PCBs), and other hazardous materials. The Visitor Center and Project footprint also includes asbestos cement pipe (ACP) on-site and below-grade. Lastly, the Work includes soil sampling and soil remediation, which contains arsenic, hexavalent chrome, cobalt, and lead, and must be properly excavated, isolated, stockpiled, characterized (waste), and removed and disposed of at an appropriate facility.

- B. The Work of this Contract comprises construction of all the Work indicated, described in the Specifications, or otherwise required by the Contract Documents. Unless provided otherwise in the Contract Documents, all risk of loss to Work covered by Contract Documents shall rest with Contractor until Final Acceptance of the Work. Cost of maintenance of systems and equipment prior to Final Acceptance will be considered as included in prices Bid and no direct or additional payment will be made therefore.
- C. For all Bid items, furnish and install all Work indicated and described in Specifications and all other Contract Documents. Work and requirements applicable to each individual Bid item, or unit of Work, shall be deemed incorporated into the description of each Bid item (whether Lump Sum or Unit Price). Any Bid item may be deleted from the Work and Contract Sum, in total or in part, prior to or after award of Contract without compensation in any form or adjustment of other Bid items or prices therefore.
- D. Allowance Work shall be done as Change Orders and as specified in Section 01 2600 (Modification Procedures). Identify Allowance Items (See Document 00 4113 [Bid Form]) work on the Progress Schedules and on Applications for Payment. The Amount given on Document 00 4113 (Bid Form) under each Allowance Item is the sum of money set aside for each Allowance Item. These amounts shall be included in the Contract Sum on the Bid Form. If the cost of Work done under any Allowance Item is less than the amount given on the Bid Form under that Allowance Item, the Contract Sum shall be reduced by the difference between the amount given in the Bid Form and the cost of Work actually done.

1.03 BID ITEMS

Bid Item 1 – Mobilization, bonds, permits, insurance, and demobilization – The lump sum bid price for this item shall constitute full compensation for mobilization and demobilization including but not limited to equipment shipping and delivery, equipment set up, materials shipping and delivery, obtaining jurisdictional permits, removal of equipment, and project closeout. The Mobilization/Demobilization bid item shall not be in excess of ten percent (10%) of the total bid schedule. Twenty-five percent (25%) of the total Mobilization / Demobilization bid price shall be considered the cost of Demobilization and will not be paid until completion of the work.

Bid Item 2 – Traffic Control Planning and Implementation – The lump sum bid price for this item shall constitute full compensation for traffic control, including but not limited to preparation of temporary traffic control plans and temporary traffic detour plans, notifying and managing public and safety personnel (fire, police), notifying and managing utility services of controls and detours, parking restrictions, and providing flagmen, warning signs, cones, warning devices and other such labor, materials, and equipment, including any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 3 – Water Pollution and Erosion Control – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, including any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 4 – QSP SWPPP Reporting – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, including any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 5 – Subsurface Utility Location and Potholing – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 6 – Structure/Building Deconstruction, Demolition, Removal, and Proper Disposal – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 7 – Proper Removal and Disposal of Asbestos-Containing Materials Associated with Bid Item No. 6 – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 8 – Proper Removal and Disposal of Lead-Based Paint and Lead-Containing Materials Associated with Bid Item No. 6 – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 9 – Proper Removal and Disposal of Other Hazardous Materials Abatement (Universal Waste Materials, PCBs, Ozone-Depleting Devices, Miscellaneous) – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 10 – Waste Characterization Sampling and Segregation Activities (Hazardous Materials), As Required by Law – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 11 – Asphalt Concrete Pavement Demolition, Removal, and Proper Disposal – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 12 – Parking Lot Lights Disassembly, Removal, and Proper Disposal – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 13 – Sawcutting Existing Asphalt Concrete Pavement – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 14 – Water System Utilities (Including Asbestos-Cement Piping) Demolition, Removal, and Proper Disposal – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 15 – Water Main Disconnection, Cut, and Cap (South of Visitor Center, Off-Site) – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 16 – Sanitary Sewer System Utilities Demolition, Removal, and Proper Disposal – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 17 – Sanitary Sewer Manhole Cut and Plug – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 18 – Telecommunication Utilities Disconnection, Demolition, Removal, and Proper Disposal – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 19 – Disconnect, Cut, and Cap Utilities Per Utility Owner Requirements – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 20 – Construction Field Survey and Reporting (Initial and Secondary Over-Excavations) – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 21 – Initial Over-Excavation Beneath Hardscape Surfaces (2'-0" Depth) – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 22 – Secondary Over-Excavation Beneath Hardscape Surfaces (1'-0" Depth, Incremental) – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 23 – Initial Over-Excavation Beneath Structure/Building (2'-0" Depth) – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 24 – Secondary Over-Excavation Beneath Structure/Building (1'-0" Depth, Incremental) – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 25 – Undefined Over-Excavation (1'-0" Depth, Incremental) – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 26 – Contaminated Soils Stockpiling and Protections – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 27 – Removal of Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Within 5'-0" of Structure/Building (Level With Ground Surface, Does Not Include Root Systems) – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 28 – Removal of All Other Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Not Including Bid Item No. 27 (Including Root Systems) – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 29 – Tree Protection Fencing – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 30 – Type “A” Asphalt Concrete Berm/Dike – The unit bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 31 – Final Site Grading and Preparation – The lump sum bid price for this item shall constitute full compensation for labor, materials, and equipment, and any incidentals to perform and complete the Work in accordance with the Contract Documents.

Bid Item 32 – Permit and Testing Allowance – This reimbursement allowance is designated for reimbursement of actual costs of construction permits and laboratory testing. Permit will be required from the Monterey Bay Air Resources District.

1.04 TIME OF COMPLETION AND LIQUIDATED DAMAGES

- A. Time of Completion: Eighty (80) consecutive calendar days from the Notice to Proceed.
- B. The Contractor shall pay to the Owner a sum of Three Thousand Four Hundred Dollars (\$3,400.00) per day, for each and every calendar days delay in finishing the work in excess of the number of working days prescribed above.

1.05 WORK UNDER OTHER CONTRACTS

- A. The Owner anticipates work under other contracts at the Fort Ord Military Reservation sites simultaneously with this Project.
 - I. None.

1.06 WORK SEQUENCE

- A. Construct work in stages and at times to accommodate Owner operation requirements during the construction period; coordinate construction schedule and operations with Owner.
- B. The allowable working conditions stated below are requirements by the Owner. Any requested change must be approved by the Owner. The Contractor may request a change in the allowable working conditions by submitting a written request to the Owner with a minimum 48 hours' notice.
 - 1. The Contractor shall coordinate all work with the Owner at (831) 899-6884.
 - 2. The Contractor shall sequence the work as follows, although not all items have been identified:
 - I. Proper Removal and Disposal of Asbestos-Containing Materials
 - II. Proper Removal and Disposal of Lead-Based Paint and Lead-Containing Materials;
 - III. Proper Removal and Disposal of Other Hazardous Materials Abatement (Universal Waste Materials, PCBs, Ozone-Depleting Devices, Miscellaneous);
 - IV. Waste Characterization Sampling and Segregation Activities (Hazardous Materials);
 - V. Structure/Building Deconstruction, Demolition, Removal, and Proper Disposal;
 - VI. Parking Lot Lights Disassembly, Removal, and Proper Disposal;
 - VII. Utilities (Including Asbestos-Cement Piping) Demolition, Removal, and Proper Disposal;
 - VIII. Removal of Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Within 5'-0" of Structure/Building (Level With Ground Surface, Does Not Include Root Systems);
 - IX. Initial Over-Excavation Beneath Structure/Building (2'-0" Depth);
 - X. Secondary Over-Excavation Beneath Structure/Building (1'-0" Depth, Incremental);

- XI. Asphalt Concrete Pavement Demolition, Removal, and Proper Disposal;
- XII. Initial Over-Excavation Beneath Hardscape Surfaces (2'-0" Depth);
- XIII. Secondary Over-Excavation Beneath Hardscape Surfaces (1'-0" Depth, Incremental);
- XIV. Final Site Grading and Preparation;
- XV. Type "A" Asphalt Concrete Berm/Dike.

1.07 WORK DAYS AND HOURS

- A. Work Days and hours: Monday – Friday inclusive, 8:00 a.m. – 5:00 p.m. local time, excluding holidays as outlined in Section 01 4200.
- B. Work at the Site on weekends or holidays is not permitted, unless the Contractor requests otherwise from Owner in writing at least 48 hours in advance and Owner approves in its sole discretion.

1.08 SHUTDOWN FOR DISCOVERY OF CULTURAL RESOURCES

- A. If discovery is made of items of historical archaeological or paleontological interest, immediately cease all Work in the area of discovery. Archaeological indicators may include, but are not limited to, dwelling sites, locally darkened soils, stone implements or other artifacts, fragments of glass or ceramics, animal bones, human bones, and fossils. After cessation of excavation, immediately contact Owner. Do not resume Work until authorization is received from Owner. When resumed, excavation or other activities shall be as directed by Owner.

1.09 PARTIAL OCCUPANCY/UTILIZATION REQUIREMENTS

- A. Prior to date of Final Acceptance of the Work by Owner, all necessary repairs or renewals in Work or part thereof so used, not due to ordinary wear and tear, but due to Defective materials or workmanship or to operations of Contractor, shall be made at expense of Contractor, as required in Document 00 7200 (General Conditions).

1.10 CONTRACTOR USE OF SITE

- A. Confine operations at Site to areas permitted by Contract Documents, permits, ordinances, and laws. Do not unreasonably encumber Site with materials or equipment.
- B. Assume full responsibility for protection and safekeeping of products stored on premises. Move any stored products that interfere with operations of Owner or other contractor.
- C. Coordinate parking, storage, staging, and Work areas with Owner. Use of the work area is permitted only for the purposes necessary to perform the work. If practicable, dispose of construction debris concurrently with its removal. If stockpiling is necessary, dispose of stockpiles weekly. Parking and storage will be confined to the areas designated for storage or otherwise approved by the Owner. Do not store construction materials in the drip line of any tree.
- D. Prior to commencement of Work or excavation, Contractor and Owner shall jointly survey the area adjacent to the Project area making permanent note and record of such existing damage such as cracks, sags or other similar damage. This record shall serve as a basis for determination of subsequent damage to structures, conditions or other existing improvements due to Contractor's operations. All parties making the survey shall sign the official record of existing damage. Cracks, sags or damage of any nature to the adjacent Project area, not noted in the original survey but subsequently noted, shall be reported immediately to Owner.
- E. The Contractor shall follow all city ordinances in force during the duration of this Contract.
- F. It is essential that the Contractor perform the Work with as little interference and disturbance as possible to the surrounding neighborhood.
- G. When suspect materials, outside the scope of Work, are encountered during the Work or restoration process, the Contractor shall immediately contact the Project Manager for evaluation and approval of the methods for dealing with the material.

1.11 PROJECT SITE MAINTENANCE

A. Disposal of Material –

1. Unless otherwise shown on the plans or specified herein, all excess materials and materials removed from existing improvements shall become the property of, and be disposed by the Contractor. The Contractor shall be responsible for all costs associated with disposing all excess materials in a safe and legal manner. No material shall be placed on private or public property without prior approval from the Owner and the property owner. The Contractor shall not allow and refuse, excavated material, surplus concrete or mortar, or any associated washings, to be disposed upon paved streets, into manholes or into the Owner's storm drain system.
2. Contractor shall establish a system for daily collection and disposal of waste materials from construction areas and elsewhere on the site. Contractor shall handle waste materials that are hazardous, dangerous, or unsanitary separately from inert waste by containerizing appropriately. Burning or burying of waste materials on site will not be permitted. No extra payment will be made for handling/disposal of hazardous material.

B. Cleanup and Dust Control –

1. At all times during construction, including weekends and holidays, and throughout all phases of construction, including work suspensions and until final acceptance of the project, the Contractor shall keep the work site clean and free from rubbish, debris, and prevent the formation of an airborne dust nuisance.
2. Materials and equipment shall be removed from the site as soon as they are no longer necessary. Upon completion of the work and before final inspection, the entire site shall be cleared of equipment, unused materials, and rubbish so as to present a satisfactory clean and neat appearance. All cleanup costs shall be absorbed in the Contractor's bid.
3. The Contractor shall abate dust nuisance by cleaning, sweeping, and sprinkling with water, those excavated areas of dirt or other materials which are prone to causing dust, within both the project site and the storage or staging area. If required or directed by the Engineer, the Contractor shall provide an approved water truck of large capacity with spraying capability.
4. The Contractor shall be required to apply water for dust control immediately during construction efforts within one (1) hour after notification by the Engineer that an airborne nuisance exists. If dust control is not adequate in the opinion of the Engineer, the Engineer will have this work done by others and will deduct such cost from the total contract price.
5. All hauling trucks or other construction vehicles leaving the site shall be cleaned of mud or dirt clinging to the exterior body surfaces or wheel rims before travelling on public streets outside the work limits. All trucks coming to or leaving the site with materials or loose debris shall be loaded in a manner which will prevent the dropping of materials or debris on public streets. Spillage resulting from hauling operations along or across any public traveled way shall be removed immediately at the Contractor's expense.
6. When construction operations cause dirt to be deposited on public streets, the Contractor shall immediately remove such material. Streets shall be cleaned by street sweeping, rather than flushing, so as to prevent material from entering the storm drain system.
7. Excess excavated material shall be removed from the site immediately. Sufficient material may remain for use as backfill if permitted by the specifications. Forms and form lumber shall be removed from the site as soon as practicable after stripping.
8. Failure of the Contractor to comply with the Engineer's cleanup orders may result in an order to suspend work until the condition is corrected. No additional compensation will be allowed as a result of such suspension.

C. Air Pollution Control: The Contractor shall not discharge smoke, dust or any other air contaminants into the atmosphere in such quantity as will violate the regulations of any legally constituted authority.

D. Noise Control: The Contractor shall make every reasonable effort to control noise generated as a result of construction to the satisfaction of the Engineer. Use of an air compressor, jackhammer

or other loud, vibrating sound generating devices shall be limited to operations between the hours of 8:00 a.m. and 4:30 p.m. unless otherwise authorized by the Engineer.

- E. Sanitation: The Contractor shall provide and maintain enclosed toilets for the use of employees engaged in the work. These accommodations shall be maintained in a neat and sanitary condition. They shall also comply with all applicable laws, ordinances and regulations pertaining to the public health and sanitation of dwellings and camps.
- F. Temporary Light and Power: The Contractor shall at his own expense furnish, install, maintain, and remove all temporary light and power, including piping, wiring, lamps, and other equipment, necessary for the work.
- G. Storm Water Pollution Control
 - 1. Storm Water Pollution Control work shall consist of following Best Management Practices (BMP) for storm water pollution prevention, submitting a Water Pollution Control Plan in compliance with the most current NPDES requirements, including the preparation of a Storm Water Pollution Prevention Plan (SWPPP) if warranted by the project type, size or risk level; and constructing those facilities which may be required to provide prevention, control, and abatement of water pollution.
 - 2. In compliance with State and Federal regulations on construction storm water management and non-point source pollution control, no pollutants will be allowed to enter the storm drainage system. The Contractor shall be responsible for containing and removing any waste from the Contractor's construction operations using the appropriate BMP. The Contractor shall be responsible for cleaning catch basins of solid or liquid waste materials originating from the Contractor's operation before this material migrates further into the storm drain system.
 - 3. Violation of this provision shall cause the Owner to issue a stop-work notice and take necessary action to require the Contractor to correct and comply with regulations. All costs related to the stop-work action and corrective work to come into compliance shall be fully borne by the Contractor.
 - 4. All construction efforts shall be conducted in a manner which prevents the release of hazardous material or hazardous waste into the soil or groundwater, and minimizes the discharge of pollutants into the storm drain system.

1.12 CONSTRUCTION STAKING AND MONUMENT PROTECTION

- A. Contractor shall provide its own survey staking. Provide Owner with Contractor's survey staking information in writing within 3 Business Days after it becomes available to Contractor.
- B. Contractor shall be responsible for laying out the Work, shall protect and preserve the established construction stakes and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Whenever Contractor knows or reasonably should know that any Work activity is likely to damage or destroy any construction stakes or property monuments, or require relocation because of necessary changes in grades or locations, Contractor shall replace or repair construction stake or property monuments at Contractor's expense.

1.13 PROTECTION OF EXISTING STRUCTURES AND UNDERGROUND FACILITIES

- A. The Drawings may indicate existing above- and below-grade structures, drainage lines, storm drains, sewers, water lines, gas lines, electrical lines, hot water lines, and other similar items and underground facilities that are unknown to Owner. At least 2 Business Days, or as otherwise noted, prior to commencement of excavation, notify the owners of the following Underground Facilities:

- 1. Electric and Gas: PG&E Salinas District
Dispatcher: 1 (800) 743-5000
Engineering: 1 (800) 743-5000

2. Sewer lines: Marina Coast Water District
11 Reservation Road, Marina, 93933
Phone: (831) 384-6131
3. Water lines: Marina Coast Water District
11 Reservation Road, Marina, 93933
Phone: (831) 384-6131
4. Communication: AT&T
196 Suburban Rd., San Luis Obispo, 93401
Phone: (831) 905-8165

Comcast
Phone: (925) 424-0278

- B. Where overhead service to a structure, known to receive service, does not exist, then underground service shall be assumed to exist.
- C. Attention is also directed to the existence of overhead power and telephone lines.
- D. Perform potholing by hand within 24 inches (in any direction) of the Underground Facilities. This may be done on an area-by-area basis, but shall be accomplished at least 7 Days in advance of the date of construction within such area.
- E. In addition to reporting, if a utility is damaged, Contractor must take appropriate action as provided in Document 00 7200 (General Conditions).
- F. Additional compensation or extension of time on account of utilities not indicated or otherwise brought to Contractor's attention including reasonable action taken to protect or repair damage shall be determined as provided in Document 00 7200 (General Conditions).

1.14 PERMITS

- A. The Contractor shall, at the Contractor's expense, obtain all necessary permits and licenses for the construction of each part of the Public improvement, give all necessary notices, and pay all fees and taxes required by law. The Contractor shall obtain and maintain in effect a business license from the Owner until the Owner has accepted the Public Improvements in their entirety.
- B. Permits, agreements, or written authorizations that are known by Owner to apply to this Project are listed below:
 1. Storm Water Pollution Prevention – Cities NPDES Permit
 2. Cal/OSHA Permit. Obtain, as applicable, permit(s) as required by Cal/OSHA for the following:
 - a. Construction of trenches or excavations that are five feet or more in depth and into which a person is required to descend.
3. The local Cal/OSHA district office is located at:

Fremont District Office
39141 Civic Center Drive, Suite 310
Fremont, CA 94538
(510) 794-2521

- C. All other permits that may be required, have not been applied for and shall be obtained by Contractor. Applicable permit fees will be reimbursed to the extent specified in Document 00 7200 (General Conditions).

1.15 ACTUAL DAMAGES FOR PERMIT VIOLATIONS

- A. In addition to damages which are impracticable or extremely difficult to determine, for which liquidated damages will be assessed as described in Document 00 5200 (Agreement) and Document 00 7200 (General Conditions), Owner may incur actual damages, including fines imposed by any regulatory agency, where the violations result from Contractor's activities.
- B. Contractor shall be liable for and shall pay Owner the amount of any actual losses in addition to liquidated damages or other remedies provided by the Contract Documents.
- C. The amount of liquidated damages provided in Document 00 5200 (Agreement) and Document 00 7200 (General Conditions) is not intended to include, nor does the amount include, any damages incurred by Owner for reasons other than those listed in that paragraph. Any money due or to become due to Contractor may be retained by Owner to cover both the liquidated and the actual damages described above and, should such money not be sufficient to cover such damages, Owner shall have the right to recover the balance from Contractor or its sureties.

1.16 PROTECTION OF EXISTING TREES DURING CONSTRUCTION ACTIVITIES

- A. The Contractor shall protect all existing trees on the job site from construction activities, starting from within the drip lines of each tree, except for those trees specifically identified for removal and disposal. The Owner reserves the right to issue a stop-working notice if it is determined that the Contractor's negligence has caused damage to existing trees not intended for removal and disposal.
- B. For trees to be protected-in-place, care must be taken when digging near any existing tree to minimize harm to the tree. Excavation must be done by hand until below the root zone. If any roots 2" or greater in diameter are encountered, they must be protected from damage. If the work cannot proceed without damaging such roots, the Engineer must be notified at once.
- C. No storage of materials; disposal of paints, solvents or other noxious materials; no unnecessary operation of equipment or parked cars shall be allowed within the drop line of any trees.

1.17 CONSTRUCTION WATER

- A. The Owner will charge the Contractor for the water used based on the rates specified in the FY 19-20 "Schedule of Fees and Charges", available at the Owner's website, <http://www.ci.seaside.ca.us>. The Contractor is required to place a refundable deposit with the City of Seaside Municipal Water System to obtain a water meter; it is the Contractor's responsibility to return the undamaged water meter to the Water Department at the conclusion of the project.

1.18 WORK TO BE DONE BY THE OWNER

- A. The Owner will be responsible for the following items of work on the project:
 - 1. Construction Management and Inspection.
 - 2. Environmental Monitors for Permitting and Compliance (Mitigation Measures).
 - 3. Confirmation of Initial and Secondary Over-Excavations.
 - 4. Contact and Coordinate with Disposal Facility for Specific Analyte List and Soil Sampling Density.
 - 5. Review and Transmit Analytical Data to the Contractor.
 - 6. Sign Any Required Waste Manifests (As the Generator).
 - 7. Geotechnical and Soil Sampling, Reporting, and Compaction Testing.

1.19 CONDITIONS OF USE

- A. The Contractor shall assume full responsibility for the protection and safekeeping of project materials, tools, and equipment stored on premises. Any stored products interfering with Owner operations shall be moved by the Contractor at his/her expense. The Contractor shall obtain and pay for use of any additional storage or work area for operations.
- B. The Owner will require the following of the Contractor in addition to the requirements shown and described elsewhere in these documents:

1. The Contractor shall designate a person to contact should a problem arise during non-working hours or days. The Owner shall be given that person's name, phone number, and e-mail address.

1.20 CONTRACTOR'S RESPONSIBILITIES

- A. Unless noted otherwise, the Contractor shall provide and pay for:
 1. Compliance with Contract Documents.
 2. Labor, supervision, materials, and equipment.
 3. Tools, construction equipment, and machinery.
 4. Utilities required for construction.
 5. All other facilities and services necessary for proper execution and completion of work.
- B. Pay all required sales, consumer, and use taxes.
- C. Conform to the requirements of all permits including, but not limited to any construction permits associated with the project.
- D. The Contractor acknowledges and is familiar with the existing site condition constraints, topographic features, and overall geographical locations of the project.
- E. Secure and pay for, as necessary for proper execution and completion of the work, applicable permits and licenses.
- F. Comply with Codes, ordinances, rules, regulations, orders, and other legal requirements of public authorities, which bear performance on the work.
- G. Promptly submit written notice to the Owner of observed variance of Contract documents from legal requirements.
- H. The Contractor shall be responsible for all costs associated with the containment and disposal of waste (hazardous / non-hazardous) that may result from execution of this project.
- I. The Contractor shall provide their own power, fuel, and power supplies.

PART 2 – PRODUCTS

2.01 PRODUCTS ORDERED IN ADVANCE

- A. As provided in Document 00 7200 (General Conditions) and Section 00 2113 (Measurement and Payment), and subject to all other provisions of the Contract Documents, Owner will pay for the following materials and equipment prior to incorporation into the Work:
 1. None

PART 3 – EXECUTION – NOT USED

END OF SECTION

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01 2000

MEASUREMENT AND PAYMENT

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes description of requirements and procedures for determining amount of Work performed and for obtaining payment for Work performed.

1.02 REFERENCES

- A. California Public Contract Code
- B. Code of Civil Procedures
- C. Government Code

1.03 COMPOSITION AND SCOPE OF CONTRACT SUM

A. Scope of Contract Sum

- 1. The Contract Sum for performance of the Work under Contract Documents, or under any Bid item, allowance, or Alternate, shall include full compensation for all Work required under the Contract Documents, including without limitation, all labor, materials, taxes, transport, handling, storage, supervision, administration, and all other items necessary for the satisfactory completion of the Work, whether or not expressly specified or indicated, incidental work and unexpected expenses, and all terms, conditions, requirements and limitations set forth in the Contract Documents.
- 2. Contract Sum may be expressed as lump sum, unit price, GMP, allowance, or combination thereof.

B. Unit Price items

- 1. Quantity of Work to be paid for under any item for which a unit price is fixed in Contract Documents shall be determined by Owner based on, so far as practicable, actual number of units satisfactorily completed, as determined by Owner and certified by Contractor, within prescribed or ordered limits, and no payment will be made for Work unsatisfactorily performed or done outside of limits.
- 2. Unit Prices shall apply to Work covered by unit prices so long as actual quantities performed on the Project are not less than 75 percent or greater than 125 percent of the estimated quantities bid or otherwise stated in the Contract Documents. If actual quantities exceed these parameters, then the unit price shall be adjusted by an amount to reflect the Contractor's incremental cost differential resulting from increased or decreased economies of scale.

C. Lump Sum Items

- 1. When estimated quantity for specific portion of Work is not indicated and/or Work is designated as lump sum, payment will be on a lump sum basis for Work satisfactorily completed in accordance with Contract Documents.
- 2. Payment for lump sum Work, or items of Work subject to a lump sum (e.g. without limitation, change order work), shall be made on the basis of satisfactory completion of such Work or work item, earned in progressive stages in accordance with the Contract Documents, up to but not exceeding the Contractor's percentage completion of the Work or item.
- 3. Lump sum items shall be paid based upon the approved Schedule of Values, which shall be used to measure progressive payments based upon satisfactory progress towards

completion of the item.

D. Allowance Items

1. Allowances: Allowance Work will be authorized by Owner in writing, following change order procedures to determine cost, supporting documentation and authorization to proceed. Unused allowance amounts at Contract completion shall reduce the Contract price accordingly.

1.04 PAYMENT PROCEDURES

A. Schedule of Values:

1. Within ten Days from issuance of Notice of Award and prior to the Contractor's first Application for Payment, Contractor shall submit a detailed breakdown of its Bid by scheduled Work items and/or activities, including coordination responsibilities and Project Record Documents responsibilities. Where more than one Subcontractor comprises the work of a Work item or activity, the Schedule of Values shall show a separate line item for each subcontract. Contractor shall furnish such breakdown of the total Contract Sum by assigning dollar values (cost estimates) to each applicable Progress Schedule network activity, which cumulative sum equals the total Contract Sum. This breakdown shall be referred to as the Schedule of Values.
2. Contractor's overhead, profit, insurance, cost of bonds (except to the extent expressly identified in a Bid item) and/or other financing, as well as "general conditions costs," (e.g., Site cleanup and maintenance, temporary roads and access, off-Site access roads, temporary power and lighting, security, and the like), shall be prorated through all activities so that the sum of all the Schedule of Values line items equals Contractor's total Contract Sum, less any allowances designated by Owner. Scheduling, record documents and quality assurance control shall be separate line items.
3. Owner will review the breakdown in conjunction with the Progress Schedule to ensure that the dollar amounts of this Schedule of Values are, in fact, reasonable cost allocations for the Work items listed. Upon favorable review by Owner, Owner will accept this Schedule of Values for use. Owner shall be the sole judge of fair market cost allocations.
4. Owner will reject any attempt to increase the cost of early activities, i.e., "front loading," resulting in a complete reallocation of moneys until such "front loading" is corrected. Repeated attempts at "front loading" may result in suspension or termination of the Work for default, or refusal to process progress payments until such time as the Schedule of Values is acceptable to Owner.

B. Contractor's Requests for Progress Payments

1. If requested by Contractor, progress payments will be made monthly, under the following conditions:
 - a. On or before the 25th Day of each month, Contractor shall submit to Owner one copy of an Application for Payment for the cost of the Work put in place during the period from the last Day of the previous month to the end of the current month, along with one copy of an updated Progress Schedule. Such Applications for Payment shall be for the expected total value of activities completed or partially completed, based upon Schedule of Values prices (or Bid item prices if unit price) of all labor and materials incorporated in the Work up until midnight of the last Day of that one month period, less the aggregate of previous payments. Accumulated retainage shall be shown as separate item in payment summary. Owner and Contractor will reconcile any differences in the field, based on the reconciled monthly report sheets. If Contractor is late submitting its Application for Payment, that Application may be processed at any time during the succeeding one-month period, resulting in processing of Contractor's Application for Payment being delayed for more than a Day for Day basis.
 - b. Except as otherwise provided in a labor compliance program applicable to the Work

(if any) or as otherwise required by Owner, concurrently with each Application for Payment, Contractor shall submit to the Owner the Contractor's and its Subcontractors' certified payroll records required to be maintained pursuant to Labor Code Section 1776 for all labor performed during pay periods ending during the period covered by the Application for Payment.

- c. No progress payment will be processed prior to Owner receiving all requested, acceptable schedule update information and certified payrolls, and in Owner's sole and absolute discretion, Owner may deny the entire Application for Payment for noncompliance.
- d. Each Application for Payment shall list each Change Order and Construction Change Directive ("CCD") executed prior to date of submission, including the Change Order/CCD Number, and a description of the Work activities, consistent with the descriptions of original Work activities. Contractor shall submit a monthly Change Order/CCD status log to Owner.
- e. If Owner requires substantiating data, Contractor shall submit information requested by Owner, with cover letter identifying Project, Application for Payment number and date, and detailed list of enclosures. Contractor shall submit one copy of substantiating data and cover letter for each copy of Application for Payment submitted.
- f. If Contractor fails or refuses to participate in monthly Work reconciliations or other construction progress evaluation with Owner, Contractor shall not receive current payment until Contractor has participated fully in providing construction progress information and schedule update information to Owner.

C. Owner's Review of Progress Payment Applications

- 1. Owner will review Contractor's Application for Payment following receipt and during the Progress Schedule and Billing Meeting. If adjustments need to be made to percent of completion of each activity, Owner will make appropriate notations and return to Contractor. Contractor shall revise and resubmit. All parties shall update percentage of completion values in the same manner, i.e., express value of an accumulated percentage of completion to date.
- 2. If Owner determines that portions of the Application for Payment are not proper or not due under the Contract Documents, then Owner may approve the other portions of the Application for Payment, and in the case of disputed items or Defective Work not remedied, may withhold up to 150 percent of the disputed amount from the progress payment.
- 3. Pursuant to California Public Contract Code §20104.50, if Owner fails to make any progress payment within 30 Days after receipt of an undisputed and properly submitted Application for Payment from Contractor, Owner shall pay interest to the Contractor equivalent to the legal rates set forth in subdivision (a) of Section 685.010 of the California Code of Civil Procedure. The 30-Day period shall be reduced by the number of Days by which Owner exceeds the seven-Day return requirement set forth herein.
- 4. As soon as practicable after approval of each Application for Payment for progress payments, Owner will pay to Contractor in manner provided by law, an amount equal to 95 percent (95%) of the amounts otherwise due as provided in the Contract Documents, or a lesser amount if so provided in Contract Documents and by law, provided that payments may at any time be withheld if, in judgment of Owner, Work is not proceeding in accordance with Contract, or Contractor is not complying with requirements of Contract, or to comply with stop notices or to offset liquidated damages accruing or expected. In Owner's sole discretion, if Contractor has failed to comply with either its Progress Schedule update or project record documents requirements, Owner may retain an additional 5% of any earned amounts until such requirements are satisfied.
- 5. Before any progress payment or final payment is due or made, Contractor shall submit satisfactory evidence that Contractor is not delinquent in payments to employees, Subcontractors, suppliers, or creditors for labor and materials incorporated into Work. This

specifically includes, without limitation, conditional lien release forms for the current progress payment and unconditional release forms for past progress payments. This also includes copies of certified payroll from contractor and subcontractors for the current payment period.

D. Payment for Material and Equipment Not Yet Incorporated Into the Work

1. No payment shall be made for materials or equipment not yet incorporated into the Work, except as specified elsewhere in the Contract Documents or as may be agreed to by Owner in its sole discretion. Where Contractor requests payment on the basis of materials and equipment not incorporated in the Work, Contractor must satisfy the following conditions:
2. The materials and/or equipment shall be delivered and suitably stored at the Site or at another local location agreed to in writing, for example, a mutually acceptable bonded and insured warehouse.
3. Full title to the materials and/or equipment shall vest in Owner at the time of delivery to the Site, warehouse or other storage location. Obtain a negotiable warehouse receipt, endorsed over to Owner for materials and/or equipment stored in an off-site warehouse. No payment will be made until such endorsed receipts are delivered to Owner.
4. Stockpiled materials and/or equipment shall be available for Owner inspection, but Owner shall have no obligation to inspect them and its inspection or failure to inspect shall not relieve Contractor of any obligations under the Contract Documents. Materials and/or equipment shall be segregated and labeled or tagged to identify these specific Contract Documents.
5. After delivery of materials and/or equipment, if any inherent or acquired defects are discovered, defective materials and/or equipment shall be removed and replaced with suitable materials and/or equipment at Contractor's expense.
6. At Contractor's expense, insure the materials and/or equipment against theft, fire, flood, vandalism, and malicious mischief, as well as any other coverages required under the Contract Documents.
7. Contractor's Application for Payment shall be accompanied by a bill of sale, invoice or other documentation warranting that Owner has received the materials and equipment free and clear of all liens and evidence that the materials and equipment are covered by appropriate property insurance and other arrangements to protect Owner interest therein, all of which must be satisfactory to Owner. This documentation shall include, but not be limited to, conditional releases of mechanics' liens and stop notices from all those providing materials and equipment as to which the Application for Payment relates, as well as unconditional releases of the same from the same as to the previous Application for Payment for which they have not already been provided. Amounts previously paid for materials and equipment prior to incorporation into the Work shall be deducted from amounts otherwise due Contractor as they are incorporated.

1.05 FINAL PAYMENT

A. Final Payment

1. As soon as practicable after all required Work is completed in accordance with Contract Documents, including punchlist, testing, record documents and Contractor maintenance after Final Acceptance, Contractor shall submit its Application for Final Payment.
2. Provided Contractor has met all conditions required for Final payment, Owner will pay to Contractor, in manner provided by law, unpaid balance of Contract Sum of Work (including, without limitation, retentions), or whole Contract Sum of Work if no progress payment has been made, determined in accordance with terms of Contract Documents, less sums as may be lawfully retained under any provisions of Contract Documents or by law.

B. Final Accounting

1. Prior progress payments and change orders shall be subject to audit and correction in the

- final payment.
2. Contractor and each assignee under an assignment in effect at time of final payment shall execute and deliver at time of final payment, and as a condition precedent to final payment, Document 00 6530 (Agreement and Release of Claims).

1.06 SUBSTITUTION OF SECURITIES

- A. **Public Contract Code Section 22300.** In accordance with the provisions of Public Contract Code Section 22300, substitution of securities for any moneys withheld under Contract Documents to ensure performance is permitted under following conditions:

1. At request and expense of Contractor, securities listed in Section 16430 of the Government Code, bank or savings and loan certificates of deposit, interest bearing demand deposit accounts, standby letters of credit, or any other security mutually agreed to by Contractor and Owner which are equivalent to the amount withheld under retention provisions of Contract shall be deposited with Controller or with a state or federally chartered bank in California, as the escrow agent, who shall then pay such moneys to Contractor. Upon satisfactory completion of Contract, securities shall be returned to Contractor.
2. Alternatively, Contractor may request and Owner shall make payment of retentions earned directly to the escrow agent at the expense of Contractor. At the expense of Contractor, Contractor may direct the investment of the payments into securities and receive the interest earned on the investments upon the same terms provided for securities deposited by Contractor. Upon satisfactory completion of the work of the Contract Documents, Contractor shall receive from escrow agent all securities, interest, and payments received by the escrow agent from Owner. Contractor shall then pay to each Subcontractor, not later than 10 Days after receipt of the payment, the respective amount of interest earned, net of costs attributed to retention withheld from each Subcontractor, on the amount of retention withheld to insure the performance of Contractor.
3. Contractor shall be beneficial owner of securities substituted for moneys withheld and shall receive any interest thereon.
4. Contractor may enter into an escrow agreement, form included in Contract Documents, as authorized under Public Contract Code Section 22300, specifying amount of securities to be deposited, terms and conditions of conversion to cash in case of default of Contractor, and termination of escrow upon completion of Contract Documents.
5. Public Contract Code Section 22300, in effect on Bid Day, is hereby incorporated in full by this reference and shall supersede anything inconsistent therewith.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01 2600

MODIFICATION PROCEDURES

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes requirements that supplement the paragraphs of Document 00 7200 (General Conditions).
- B. Description of procedures for modifying the Contract Documents and determining costs for changes in contract amounts.

1.02 PROCEDURES FOR CONTRACTOR INITIATED CHANGE ORDER

A. Contractor-Initiated Change Proposal Request (CPR) and Procedures:

1. Contractor may initiate changes by submitting a Change Proposal Request ("CPR").
2. Whenever Contractor elects or is entitled to submit a CPR, Contractor shall prepare and submit to Owner for consideration a CPR using the form included in this Project Manual. All CPRs must contain a complete breakdown of costs of credits, deducts and extras; itemizing materials, labor, taxes, Markup and any requested changes to Contract Time. All Subcontractor Work shall be so indicated. Individual entries on the CPR form shall include applicable Schedule of Values code, with all amounts determined as provided herein. After receipt of a CPR with a detailed breakdown, Owner will act promptly thereon.
3. If Owner accepts a CPR, Owner will prepare a Change Order for Owner and Contractor signatures.
4. If CPR is not acceptable to Owner because it does not agree with Contractor's proposed cost and/or time, Owner will provide comments thereto. Contractor will then, within seven (7) Days (except as otherwise provided herein), submit a revised CPR.
5. When necessity to proceed with a change does not allow Owner sufficient time to conduct a proper check of a CPR (or revised CPR), Owner may issue a Change Directive (CD) as provided below.

B. Contractor-Initiated Request for Information (RFI) Procedures, Requirements and Limitations:

1. Contractor may submit RFI's for clarifications in Owner-prepared Contract Documents, which may result in the Contractor submitting a CPR.
2. Whenever Contractor requires information regarding the Project or Owner-prepared Contract Documents, or receives a request for such information from a Subcontractor, Contractor may prepare and deliver an RFI to Owner. Contractor shall use RFI format provided on approval by Owner. Contractor shall not issue an RFI to Owner solely to clarify Contractor-prepared Construction Documents. Contractor must submit time critical RFIs at least 30 days before scheduled start date of the affected Work activity. Contractor shall reference each RFI to an activity of Progress Schedule and shall note time criticality of the RFI, indicating time within which a response is required. Contractor's failure to reference RFI to an activity on the Progress Schedule and note time criticality on the RFI shall constitute Contractor's waiver of any claim for time delay or interruption to the Work resulting from any delay in responding to the RFI.
3. Contractor shall be responsible for its costs to implement and administer RFIs throughout the Contract duration. Regardless of the number of RFIs submitted, Contractor shall not be entitled to additional compensation for the effort required to submit the RFIs. Contractor shall be responsible for Owner's administrative costs for answering RFIs where the answer could reasonably be found by reviewing the Contract Documents, as determined by

Owner; at Owner discretion, such costs may be deducted from progress payments or final payment.

4. Owner will respond within ten (10) days from receipt of RFI with a written response to Contractor. Contractor shall distribute response to all appropriate Subcontractors.
5. If Contractor is satisfied with the response and does not request a change in Contract Sum or Contract Time, then the response shall be executed without a change.
6. If Contractor believes the response is incomplete, Contractor shall issue another RFI (with the same RFI number with the letter "A" indicating it is a follow-up RFI) to Owner clarifying original RFI. Additionally, Owner may return RFI requesting additional information should original RFI be inadequate in describing condition.

C. Time Requirements:

1. If Contractor believes that an Owner response to an RFI, submittal or other Owner direction, results in change in Contract Sum or Contract Time, Contractor shall notify Owner with the issuance of a preliminary CPR within ten Days after receiving Owner's response or direction, and in no event after starting the disputed work or later than the time allowed under Article 12 of Document 00 7200 (General Conditions). If Contractor also requests a time extension, or has issued a notice of delay or otherwise requests a time extension with a CPR, then Contractor shall submit the TIE required herein concurrently with the CPR and in no event later than ten Days after providing the notice of delay.
2. If Contractor requires more time to accurately identify the required changes to the Contract Sum or Contract Time, Contractor may submit an updated and final CPR and TIE within 14 days of submitting the preliminary CPR.
3. If Owner agrees with Contractor's CPR and/or TIE, then Owner will prepare a Change Order for Owner and Contractor signatures. If Owner disagrees with Contractor, then Contractor may give notice of potential claim as provided in Article 12 of Document 00 7200 (General Conditions), and proceed thereunder.
4. Contractor must submit CPRs, notices of potential claim or Claims within the required time periods. Any failure to do so waives Contractor's right to submit a CPR or file a Claim.

D. Cost Estimate Information:

1. Contractor and subcontractors shall, upon Owner's request, permit inspection of the original unaltered cost estimates, subcontract agreements, purchase orders relating to the change, and documents substantiating all costs associated with its CPR or Claims arising from changes in the Work.

1.03 PROCEDURES FOR OWNER INITIATED CHANGE ORDERS

A. Owner Initiated Change Directives (CD):

1. Owner may, by Change Directive ("CD") or initially by Instruction Bulletin or by following the procedures for disputed work herein, order changes in the Work within the general scope of the Contract consisting of additions, deletions, or other revisions, with or without adjustment to Contract Sum or Contract Time.
2. If at any time Owner believes in good faith that a timely Change Order will not be agreed upon using the foregoing procedures, or at any other time, Owner may issue a CD with its recommended cost and/or time adjustment (if any). Upon receipt of CD, Contractor shall promptly proceed with the change of Work involved and respond to Owner within ten (10) Days.
3. Contractor's response must be any one of following:
 - a. Return CD signed, thereby accepting Owner response, including adjustment to time and cost (if any).
 - b. Submit a (revised if applicable) Cost Proposal with supporting documentation (if applicable, reference original Cost Proposal number followed by letter A, B, etc. for each revision), if Owner so requests.

- c. Give notice of intent to submit a claim as described in Article 12 of Document 00 7200 (General Conditions), and submit its claim as provided therein.
4. If CPR or the CD provides for an adjustment to any Contract Sum, the adjustment shall be based on one of the following methods:
 - a. Mutual acceptance of a lump sum properly itemized and supported by sufficient substantiating data to permit evaluation.
 - b. Contractor to proceed on cost reimbursable (force account) basis while negotiating towards a firm price.
 - c. Cost to be determined in a manner agreed.
5. Change Directive signed by Contractor indicates the agreement of Contractor therewith, including adjustment in Contract Sum or the method for determining them. Such agreement shall be effective immediately and shall be finalized as a Change Order. Where Owner authorizes CD work on a time and materials basis up to a maximum amount, then Contractor shall promptly advise Owner upon reaching 75% of such maximum amount, otherwise Contractor shall accept fully the risk of completing the CD work without exceeding such maximum amount.
6. If Contractor does not respond promptly or disagrees with the method for adjustment (or non-adjustment) in the Contract Sum, the method and the adjustment shall be determined by Owner on the basis of the Contract Documents and the reasonable expenditures and savings of those performing the Work attributable to the change. If the parties still do not agree on the proper adjustment due to a Change Directive, Contractor may file a Claim per Article 12 of Document 00 7200 (General Conditions) and/or Owner may direct the changed work through a unilateral change order. Contractor shall keep and present an itemized accounting in a manner consistent with the SOV, together with appropriate supporting data. Unless otherwise provided in the Contract Documents, costs for the purposes of this paragraph shall be limited to those provided herein.
7. Pending final determination of cost to Owner, Contractor may include amounts not in dispute in its Applications for Payment. The amount of credit to be allowed by Contractor to Owner for a deletion or change which results in a net decrease in the Contract Sum shall be actual net cost as confirmed by Owner. When both additions and credits covering related Work or substitutions are involved in a change, the allowance for Markup shall be figured on the basis of net increase, if any, with respect to that change.

B. Owner Initiated Change Order (CO) or Request for Proposal (RFP):

1. Owner may initiate changes in the Work or Contract Time by issuing a Request for Proposal ("RFP") or Change Order ("CO") to Contractor.
2. Owner may issue an RFP to Contractor. Any RFP will detail all proposed changes in the Work and request a quotation of changes in Contract Sum and Contract Time from Contractor.
3. In response to an RFP, Contractor shall furnish a Change Proposal Request (CPR) within twenty-one (21) Business Days of Owner's RFP. Upon approval of CPR, Owner may issue a Change Directive directing Contractor to proceed with extra Work.
4. If the parties agree on price and time for the work, the Owner will issue a Contact Change Order. If the parties do not agree on the price or time for a CPR, Owner may either issue a CD or decide the issue per Article 12 of Document 00 7200 (General Conditions). Contractor shall perform the changed Work notwithstanding any claims or disagreements of any nature.

1.04 PROCEDURES THAT APPLY TO CONTRACTOR- AND OWNER-INITIATED CHANGE ORDERS

A. Adjustment of Schedules to Reflect Change Orders or CDs:

1. Contractor shall revise Schedule of Values and Application for Payment forms to record each authorized Change Order or CD as a separate line item and adjust the Contract Sum as shown thereon prior to the next monthly pay period.
2. Contractor shall revise the Progress Schedules prior to the next monthly pay period, to reflect CO or CD.
3. Contractor shall enter changes in Project Record Documents prior to the next monthly pay period.

B. Required Documentation for Adjustments to Contract Amounts:

1. For all changes and cost adjustments requested, Contractor shall provide documentation of change in Contract Amounts asserted, with sufficient data to allow evaluation of the proposal.
2. In all requests for compensation, cost proposals, estimates, claims and any other calculation of costs made under the Contract Documents, Contractor shall breakout and quantify costs of labor, equipment and materials identified herein, for Contractor and subcontractors of any tier.
3. Contractor shall, on request, provide additional data to support computations for:
 - a. Quantities of products, materials, labor and equipment.
 - b. Taxes, insurance, and bonds.
 - c. Justification for any change in Contract Time and new Progress Schedule showing revision due, if any.
 - d. Credit for deletions from Contract, similarly documented.
4. Contractor shall support each claim or computation for additional cost, with additional information including:
 - a. Origin and date of claim or request for additional compensation.
 - b. Dates and times Work was performed and by whom.
 - c. Time records and wage rates paid.
 - d. Invoices and receipts for products, materials, equipment and subcontracts, similarly documented.
 - e. Credit for deletions from Contract, similarly documented.

C. Responses and Disputes:

1. For all responses for which the Contract Documents do not provide a specific time period, recipients shall respond within a reasonable time.
2. For all disputes arising from the procedures herein, Contractor shall follow Article 12 of Document 00 7200 (General Conditions).

1.05 COST DETERMINATION FOR CHANGES IN CONTRACT AMOUNTS

A. Calculation of Total Cost of Extra Work:

1. Total cost of changed Work, extra Work or of Work omitted shall be the sum of three components defined immediately below as: Component 1 (Direct Cost(s)); Component 2 (Markup); and, Component 3 (bonds, insurance, taxes)
2. Component 1: Direct Cost(s) of labor, equipment and materials, is calculated based upon actually incurred (or omitted) labor costs, material costs and equipment rental costs, as defined herein;
3. Component 2: Markup on such actually incurred Direct Costs, is applied in the percentages identified below; and
4. Component 3: Actual additional costs for any additionally required insurance, bonds, and/or taxes, defined herein, is calculated without Markup.

1.06 MEASUREMENT OF DIRECT COST OF CONSTRUCTION (COST COMPONENT NO. 1)

A. Composition of Component 1 (Direct Cost of Construction):

1. Component 1 has four subcomponents, also referred to as "LEMS":
 - a. Labor (Component 1A)
 - b. Equipment (Component 1B)
 - c. Materials (Component 1C)
 - d. Subcontractors (Component 1D)

B. Measurement of Cost of Labor (Component 1A):

1. Cost of Labor shall be calculated as: Cost of labor for workers (including forepersons when authorized by Owner) used in actual and direct performance of the subject work, whether employer is Contractor, Subcontractor or other forces, in the sum of the following:
 - a. Actual Wages: Actual wages paid shall include any employer payments to or on behalf of workers for health and welfare, pension, vacation, and similar purposes.
 - b. Labor surcharge: Payments imposed by local, county, state, and federal laws and ordinances, and other payments made to, or on behalf of, workers, other than actual wages as defined, such as worker's compensation insurance. Such labor surcharge shall not exceed generally accepted standards in the State for labor rates in effect on date upon which extra Work is accomplished.
 - c. Cost of labor shall include no other costs, fees or charges.
2. Labor cost for operators of equipment owned and operated by Contractor or any Subcontractor, shall be no more than rates of such labor established by collective bargaining agreements for type of worker and location of Work, whether or not owner-operator (i.e., Contractor or Subcontractor) is actually covered by such an agreement.
3. Cost of labor shall be recorded and documented in certified payroll records, maintained in the form customary and/or required in the State, delivered to Owner weekly.

C. Measurement of Cost of Equipment (Component 1B):

1. Measurement of Component 1B (Cost of Equipment). Cost of Equipment shall be calculated as: Cost of Equipment used in actual and direct performance of the subject work, whether by Contractor, Subcontractor or other forces. Cost of Equipment shall be calculated as herein described.
2. For rented equipment, cost will be based on actual rental invoices, appropriate for the use and duration of the work. Equipment used on extra Work shall be of proper size and type. If, however, equipment of unwarranted size or type and cost is used, cost of use of equipment shall be calculated at rental rate for equipment of proper size and type, as determined by Owner.
3. Equipment rental cost for Contractor or Subcontractor-owned equipment, shall be determined by reference to, and not in excess of, the generally accepted standards in the State for equipment rental rates in effect on date upon which extra Work is accomplished. If there is no applicable rate for an item of equipment, then payment shall be made for Contractor- or Subcontractor-owned equipment at rental rate listed in the most recent edition of the CalTrans Standard Schedules and Specifications, and absent a rental rate therein, then the Association of Equipment Distributors (AED) book.
4. In all cases, rental rates paid shall be deemed to cover cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals.
5. Unless otherwise specified, manufacturer's ratings, and manufacturer-approved modifications, shall be used to classify equipment for determination of applicable rental rates. Individual pieces of equipment or tools not listed in said publication and having a replacement value of \$100 or less, whether or not consumed by use, shall be considered to be small tools and no payment will be made therefore as payment is included in payment for labor. Rental time will not be allowed while equipment is inoperative due to breakdowns.

6. For equipment on Site, rental time to be paid for equipment shall be time equipment is in operation on extra Work being performed or on standby as approved by Owner. The following shall be used in computing rental time of equipment:
 - a. When hourly rates are listed, less than 30 minutes of operation shall be considered to be ½ hour of operation.
 - b. When daily rates are listed, less than four hours of operation shall be considered to be ½ Day of operation.
 - c. Rates shall correspond to actual rates paid by Contractor, i.e., if Contractor pays lower weekly or monthly rates, then same shall be charged to Owner.
 7. For equipment that must be brought to Site to be used exclusively on extra Work, cost of transporting equipment to Site and its return to its original location shall be determined as follows:
 - a. Owner will pay for costs of loading and unloading equipment.
 - b. Cost of transporting equipment in low bed trailers shall not exceed hourly rates charged by established haulers.
 - c. Cost of transporting equipment shall not exceed applicable minimum established rates of California Public Utilities Commission or appropriate State Dept. of Transportation.
 - d. Owner will not make any payment for transporting and loading and unloading equipment if equipment is used on Work in any other way than upon extra Work.
 - e. Rental period may begin at time equipment is unloaded at Site of extra Work and terminate at end of the performance of the extra Work or Day on which Owner directs Contractor to discontinue use of equipment, whichever first occurs. Excluding Saturdays, Sundays, and Owner legal holidays, unless equipment is used to perform extra Work on such Days, rental time to be paid per Day shall be four hours for zero hours of operation, six hours for four hours of operation and eight hours for eight hours of operation, time being prorated between these parameters. Hours to be paid for equipment that is operated less than eight hours due to breakdowns, shall not exceed eight less number of hours equipment is inoperative due to breakdowns.
 8. Employee vehicles are not part of Component 1A, rather, are included within Component 2 (Markup).
 9. Equipment costs shall include no other costs, fees or charges.
- D. **Measurement of Cost of Material (Component 1C):**
1. Cost of Material shall be calculated as herein described. Cost of such materials will be cost to purchaser (Contractor, Subcontractor or other forces) from supplier thereof, except as the following are applicable:
 2. If cash or trade discount by actual supplier is offered or available to purchaser, it shall be credited to Owner notwithstanding fact that such discount may not have been taken.
 3. For materials salvaged upon completion of Work, salvage value of materials shall be deducted from cost, less discounts, of materials.
 4. If cost of a material is, in opinion of Owner, excessive, then cost of material shall be deemed to be lowest current wholesale price at which material is available in quantities concerned delivered to Site, less any discounts as provided in this Paragraph.
 5. Material costs shall include no other costs, fees or charges.
- E. **Measurement of Cost of Subcontractors (Component 1D):**
1. Where reimbursed or calculated per the terms of the Contract Documents, change order or Change Directive, cost of Subcontractors shall be calculated as amounts earned by Subcontractors procured in compliance with the Contract Documents and approved by the Owner, provided such subcontractor earned amounts meet the following requirements:

- a. Such amounts are earned under the terms of the Subcontracts and the Work complies with the terms of the Contract Documents;
- b. Such amounts are properly requested, documented and permitted under the terms of the subcontract(s) and the Contract Documents.
- c. Total cost to Owner of Direct Costs of Construction (labor, equipment, materials), Markup, and costs of bonds, insurance and taxes, conform to contract limitations (i.e., totals paid by Owner do not exceed the 20% Markup limitation.).

1.07 MEASUREMENT AND PAYMENT OF MARK UP (COST COMPONENT 2)

A. Markup Percentages for Changed Work (Component 2):

1. Markup on Direct Cost of labor and materials for extra Work shall be 15%. Markup on Direct Cost of equipment for extra Work shall be 15%.
2. When extra Work is performed by Subcontractors, regardless of the number of tiers, total Markup on "Component 1" Direct Costs shall not exceed 20%. Contractor and its Subcontractors shall divide the 20% as they may agree.
3. Under no circumstances shall the total Markup on any extra Work exceed twenty (20) percent, stated as a percent of the Direct Cost of labor, equipment and materials. This limitation shall apply regardless of the actual number of subcontract tiers.
4. On proposals covering both increases and decreases in Contract Sum, Markup shall be allowed on the net increase only as determined above. When the net difference is a deletion, no percentage for Markup shall be allowed, but rather an appropriate percentage deduction shall be issued in the amount of the net difference.

B. Measurement and Payment of Mark Up (Component 2):

1. Mark Up (Component 2) provides complete compensation to Contractor for:
 - a. All Contractor profit;
 - b. All Contractor home-office overhead;
 - c. All Contractor assumption of risk assigned to Contractor under the Contract Documents;
 - d. Subject to the qualifications below regarding self-performed work, all General Conditions and General Requirements.
2. Profit. Compensation for profit included within Component 2 (Mark Up), includes without limitation: Fees of all types, nature and description; and Profit and margins of all types, nature and description.
3. Home Office Expenses. Compensation for home office expenses included within Component 2 (Mark Up), includes without limitation: Salaries and other compensation of any type of Contractor's personnel (management, administrative and clerical), and all direct and indirect operating, travel, payroll, safety, storage, quality control, maintenance and overhead costs of any nature whatsoever, incurred by Contractor at any location other than the Project specific site office, including without limitation, Contractor's principal or branch offices; insurance premiums other than those for Project specific insurance directed by the Owner in a change order; all hardware, software, supplies and support personnel necessary or convenient for Contractor's capture, documentation and maintenance of its costs and cost accounting data and cost accounting and control systems and work progress reporting.
4. Assumption of Risk. Compensation for Contractor's assumption of risk under the Contract Documents, included within Component 2 (Mark Up), includes without limitation loss, cost, damage, expense or liability resulting directly or indirectly from any of the following causes ("unallowable costs"), for Contractor and subcontractors of any tier: noncompliance with the Contract Documents, fault or negligence, defective or non-conforming Work, by Contractor or any Subcontractor or Vendor of any tier or anyone directly or indirectly employed by any of them, or for whose acts or omissions any of them are responsible or liable at law or under the Contract Documents; cost overruns of any type; costs in excess

of any lump sum, not to exceed amount or GMP; costs resulting from bid or “buy out” errors, unallocated scope, or incomplete transfer of scope or contract terms to subcontractors; any costs incurred by Contractor relating to a Change in the Work without a Change Order or Change Directive in accordance with the Contract Documents; costs for work or materials for which no price is fixed in the Contract Documents, unless it is expressly specified that such work or material is to be paid for as extra work.

5. General Conditions and Division 1 General Requirements. Compensation for Contractor's General Conditions and General Requirements Costs included within Component 2 (Mark Up), includes compensation to Contractor for: Contractor's direct costs, without overhead or profit, for salaries and related forms of compensation and employer's costs for labor and personnel costs, of Contractor's employees and subconsultant's employees (if any), while and only to the extent they are performing Work at the Project Site. Personnel and Work compensated by this Component include without limitation: All required Project management responsibilities; all on-site services; monthly reporting and scheduling; routine field inspection of Work; general superintendence; general administration and preparation of cost proposals, schedule analysis, change orders and other supporting documentation as necessary; salaries of project superintendent, project engineers, project managers, safety manager, other manager, timekeeper, and secretaries; all cost estimates and updates thereto; development, validation and updates to the project schedule; surveying; estimating. Compensation for Contractor's General Requirements Costs included within Component 2 (Mark Up), compensates Contractor for its “General Requirements” Costs, including without limitation: all scheduling hardware, software, licenses, equipment, materials and supplies; purchase, lease or rental, build out, procurement, supporting equipment and maintenance of temporary on-Site facilities, Project field and office trailers and other temporary facilities, office equipment and supporting utilities; platforms, fencing, cleanup and jobsite security; temporary roads, parking areas, temporary security or safety fencing and barricades, etc.; all Contractor's motor vehicles used by any Contractor's personnel, and all costs thereof; all health and safety requirements, required by law or Owner procedures; all surveying; all protection of Work; handling and disposal fees; final cleanup; repair or maintenance; other incidental Work; all items, activities and function similar to any of those described above; all travel, entertainment, lodging, board and the like.
6. Personnel compensated by the Markup Component do not include workers of foreman level or below in the case of self-performed work; rather, such personnel shall be treated as a Direct Cost of Construction. Costs compensated by the Markup component do not include temporary measures specifically required by the changed work, not otherwise required or ongoing in the prosecution of the Work, that commence specifically to support the changed work and conclude with the completion of the changed work. Such costs shall be treated as Direct Costs of Construction. Examples of General Requirements costs that this component may not cover are the following: temporary barricades or fencing of specific areas required specifically for the changed work; cranes required specifically for the changed work; extra security required specifically for the changed work.

1.08 **MEASUREMENT AND PAYMENT OF BONDS INSURANCE TAXES (COMPONENT 3)**

A. **Measurement of Bonds, Insurance, Taxes (Component 3):**

1. Component 3 (Bonds, Insurance, Taxes) consists of the cost of bonds, insurance and taxes, also referred to as “BIT”. All State sales and use taxes, applicable County and applicable City sales taxes, shall be included. Federal and Excise tax shall not be included.
2. There is no mark up on BIT.

1.09 **EFFECT OF PAYMENT**

A. **Change Order Compensation is All Inclusive.**

1. Except as provided expressly below regarding changes that extend the Contract Time, payment of calculated cost of extra work constitutes full and complete compensation for costs or expense arising from the extra Work, and is intended to be all inclusive.
2. Payment for Direct Cost of Construction (Component 1 or LEMS) is intended to be all-inclusive. Any costs or risks not delineated within cost of labor, equipment or materials herein, shall be deemed to be within the costs and risks encompassed by the applicable Markups and unallowable in any separate amount.
3. Payment of Markup (Component 2) is intended to be all-inclusive. Contractor waives claims for any further or different payment of cost and risk items delineated herein, other than the allowable percentage markup on costs set forth in the Contract Documents; such separate, further or different cost or risk items shall be unallowable, waived and liquidated within the allowable percentage markup.
4. Contractor shall recover no other costs or markups on extra work of any type, nature or description.

B. Exception for Changes Extending the Contract Time.

1. Where a change in the Work extends the Contract Time, Contractor may request and recover additional, actual direct costs, provided Contractor can demonstrate such additional costs are (i.) actually incurred performing the Work, (ii.) not compensated by the Markup allowed, and (iii) directly result from the extended Contract Time. Contractor shall make such request and provide such documentation following all required procedures, documentation and time requirements in the Contract Documents, and subject to all contract limitations of liability. Contractor may not seek or recover such costs using formulas (e.g., Eichleay).

C. Limits of Liability / Accord and Satisfaction.

1. The foregoing limits of compensation apply in all cases of claims for changed Work, whether calculating Change Proposal Requests, Change Orders or CDs, or calculating claims and/or damages of all types, and applies even in the event of fault, negligence, strict liability, or tort claims of all kinds, including strict liability or negligence. Contractor may recover no other costs arising out of or connected with the performance of extra Work, of any nature.
2. Under no circumstances may Contractor claim or recover special, incidental or consequential damages against Owner, its representatives or agents, whether arising from breach of contract, negligence, strict liability or other tort or legal theory, unless specifically and expressly authorized in the Contract Documents.
3. No change in Work shall be considered a waiver of any other condition of Contract Documents. No claim shall be made for anticipated profit, for loss of profit, for damages, or for extra payment whatever, except as expressly provided for in Contract Documents.
4. Accord and Satisfaction: Every Change Order and accepted CD shall constitute a full accord and satisfaction, and release, of all Contractor (and if applicable, Subcontractor) claims for additional time, money or other relief arising from or relating to the subject matter of the change including, without limitation, impacts of all types, cumulative impacts, inefficiency, overtime, delay and any other type of claim. Contractor may elect to reserve its rights to disputed claims arising from or relating to the changed Work at the time it signs a Change Order or approves a CD, but must do so expressly in a writing delivered concurrently with the executed Change Order or approved CD, and must also submit a Claim for the reserved disputed items pursuant to Article 12 of Document 00 7200 (General Conditions) no later than thirty (30) days after Contractor's first written notice of its intent to reserve rights. Execution of any Change Order or CD shall constitute Contractor's representation of its agreement with this provision.

1.010 MISCELLANEOUS REQUIREMENTS

A. Owner-Furnished Materials.

1. Owner reserves right to furnish materials as it deems advisable, and Contractor shall have no claims for costs and Markup on such materials.

B. Records And Certification.

1. All charges shall be recorded daily and summarized in Change Proposal Request form attached hereto. Contractor or authorized representative shall complete and sign form each day. Contractor shall also provide with the form: the names and classifications of workers and hours worked by each; an itemization of all materials used; and a list by size type and identification number of equipment and hours operated.
2. Owner shall have the right to audit all records in possession of Contractor relating to activities covered by Contractor's claims for modification of Contract, including CD Work. This right shall be specifically enforceable, and any failure of Contractor to voluntarily comply shall be deemed an irrevocable waiver and release of all claims then pending that were or could have been subject to Article 12 of Document 00 7200 (General Conditions).

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION

[COST PROPOSAL FORM FOLLOWS ON NEXT PAGE]

COST PROPOSAL (CP)

Owner **[Insert Project Name]**
 Contract Number _____

CP Number: _____
 Date: _____
 In Response To _____
 Bulletin #, etc.

To: **[Insert Name of Owner]**
 Attention: **[_____]**
[Insert Owner's Address]
 Phone: (____) ____ - ____
 Fax: (____) ____ - ____

From: **[Insert Contractor's Name/Address]**

This Cost Proposal is in response to the above-referenced _____ **[insert Bulletin, etc. as applicable]**.

Brief description of change(s): _____

ITEM DESCRIPTION	PRIME CONTRACTOR	SUB 1	SUB 2	SUB 3	SUB 4	TOTAL
MATERIAL						
LABOR						
EQUIPMENT						
Other (Specify) Extended Overhead						
TOTAL COST						
Subcontractor's Overhead & Profit 15 percent						
Contractor's Overhead & Profit 15 percent						
Overhead & Profit to Contractor for Subcontractor's Work 5 percent						
(percent of Total Cost above not including any Overhead & Profit – may not exceed 20%)						
GRAND TOTAL						
REQUESTED CHANGE IN CONTRACT TIME (DAYS) (Time Impact Evaluation Enclosed)						

By Contractor:
 Modification Procedures

Signature:
 01 2600 - 11

Date:
 City of Seaside
 Fort Ord Military Reservation Property
 Deconstruction and Demolition Project
 Phase 1A

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01 3119

PROJECT MEETINGS

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes description of required project meetings.

1.02 PRECONSTRUCTION CONFERENCE

- A. Preconstruction Conference. Owner will call for and administer Preconstruction Conference at time and place to be announced (usually the week prior to start of Work at the Site). Contractor, all major Subcontractors, and major suppliers shall attend Preconstruction Conference. Agenda may include, but not be limited to, the following items:

1. Schedules
2. Personnel and vehicle permit procedures
3. Use of premises
4. Location of the Contractor's on-Site facilities
5. Security
6. Housekeeping
7. Submittal and RFI procedures
8. Inspection and testing procedures, on-Site and off-Site
9. Utility shutdown procedures
10. Control and reference point survey procedures
11. Injury and Illness Prevention Program
12. Contractor's Initial Progress Schedule
13. Contractor's Schedule of Values
14. Contractor's Schedule of Submittals
15. Jurisdictional agency requirements

- B. The Contractor shall deliver the following submittals at the preconstruction meeting:

1. Schedules
2. Water Pollution Control Plan (BMPs)
3. Safety Plan
4. Sample Resident Notification Letter
5. Any submittal requiring prompt review due to required lead times

1.03 WEEKLY PROJECT MEETINGS

- A. Owner will schedule and administer weekly progress meetings throughout duration of Work. Progress meetings will be held weekly unless otherwise directed by Owner. Meetings shall be held at Owner's Offices unless otherwise specified in Contract Documents.

1. Owner's Representative will prepare agenda and distribute it 2 Days in advance of meeting to the Contractor.
2. Participants with agenda items shall present them.
3. The Architect/Engineer and other responsible entities shall attend meetings unless otherwise specified in Contract Documents or provided by Owner.
4. Owner shall record and distribute the meeting minutes. Minutes shall be distributed by the Owner to the Contractor within 3 business days after the meeting. Contractor shall distribute the minutes to those affected by decisions made at meeting. Attendees shall have 5 business days to submit comments or additions to the minutes. Minutes shall

- constitute final memorialization of results of meeting.
5. Progress meetings shall be attended by Contractor's job superintendent, major Subcontractors and suppliers, Owner, and others as appropriate to agenda topics for each meeting.
 6. Agenda may contain the following items, as appropriate:
 - a. Review, revise as necessary, and approve previous meeting minutes
 - b. Review of Work progress since last meeting
 - c. Status of Construction Work Schedule, delivery schedules, adjustments
 - d. Submittal, RFI, and Change Order status
 - e. Review of the Contractor's safety program activities and results, including report on all serious injury and/or damage accidents
 - f. Other items affecting progress of Work

1.04 PROGRESS SCHEDULE AND BILLING MEETINGS

- A. A meeting will be held on approximately the 20th of each month to review the schedule update submittal and progress payment application.
- B. At this meeting, at a minimum, the following items will be reviewed:
 1. Percent complete of each activity;
 2. Time impact evaluations for Change Orders and Time Extension Request;
 3. Actual and anticipated activity sequence changes;
 4. Actual and anticipated duration changes; and
 5. Actual and anticipated Contractor delays.
- C. These meetings are considered a critical component of overall monthly schedule update submittal and Contractor shall have appropriate personnel attend. At a minimum, Contractor's General Superintendent and Scheduler shall attend these meetings.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01 3230

PROGRESS SCHEDULES AND SUBMITTALS

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes description of requirements and procedures for submitting progress schedules and submittals.

1.02 CONTRACTOR TO SUBMIT PROGRESS SCHEDULES

- A. Contractor shall submit original (baseline) progress schedule before or at the pre-construction meeting for review by the Owner.
- B. Baseline Progress Schedule shall show Contractor's construction and procurement activities, including but not limited to, equipment procurement and delivery (Contractor and Owner supplied), activities with Subcontractors and suppliers, major submittal reviews, commissioning of systems, use of major equipment on site, and necessary interface with Owner and third parties required to complete the Work in a timely manner and in accordance with Contract Time.

1.03 SCHEDULE REQUIREMENTS.

- A. Unless Owner agrees in writing otherwise, progress schedule shall be on Microsoft Project, Primavera P6, Suretrack, or equivalent software, as Owner may specify, which Contractor shall prepare and supply to Owner, with all datapoint entries completed for start dates, necessary work activities, durations (not longer than 21 calendar days) and logic ties.
- B. Contractor's progress schedule may be in the form of a CPM (arrow) diagram or, if Owner agrees in writing, a bar chart. The hard copies of the schedule supplied to Owner shall indicate the critical path of the Work (in red) and shall show a logical progression of the Work through completion within Contract Time.
- C. Unless Owner agrees in writing otherwise, progress schedule shall also show early and late start and finish dates and total available float (float to the successor activity's late start date) for each activity. Owner has no obligation to accept an early completion schedule.

1.04 MONTHLY UPDATES

- A. Contractor's progress schedule shall be updated monthly to reflect actual progress. The schedule shall be subject to Owner's review and acceptance for use in monitoring Contractor's Work and evaluating Applications for Payment.
- B. Contractor shall supply Owner with an electronic copy of the updated progress schedule with each monthly payment application. Contractor shall provide Owner with two-week lookahead schedules weekly, showing in detail and activities and resources scheduled for the immediate two-week period.

1.05 RECOVERY SCHEDULE

- A. Owner may request a recovery schedule should Contractor fall 21 or more Days behind any schedule Milestone, which schedule shall show Contractor's plan and resources committed to retain Contract completion dates.
- B. The recovery schedule shall show the intended critical path. If Owner requests, Contractor shall also:
 - 1. Secure and demonstrate appropriate Subcontractor and supplier consent to the recovery Schedule.
 - 2. Submit a narrative explaining trade flow and construction flow changes and man-hour loading assumptions for major Work activities and/or Subcontractors.

1.06 TIME IMPACT EVALUATION ("TIE") FOR CHANGE ORDERS, TIME EXTENSIONS AND DELAYS:

- A. When Contractor requests a time extension for any reason, Contractor shall submit a TIE that includes both a written narrative and a schedule diagram depicting how the changed Work or other impact affects other schedule activities. The schedule diagram shall show how Contractor proposes to incorporate the changed Work or other impact in the schedule and how it impacts the current Schedule update critical path or otherwise. Contractor is also responsible for requesting time extensions based on the TIE's impact on the critical path. The diagram shall be tied to the main sequence of scheduled activities to enable Owner to evaluate the impact of changed Work to the scheduled critical path.
- B. Contractor is responsible for all costs associated with the preparation of TIE's, and the process of incorporating TIE's into the current schedule update. Provide Owner with four copies of each TIE.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01 3300

SUBMITTALS

PART 1 – PART 1 GENERAL

1.01 SUMMARY

- A. Section includes description of requirements and procedures for submittals. Please refer to the technical specifications and/or plans for any additional submittals not specifically mentioned in this section.

1.02 SCHEDULE OF SUBMITTALS

- A. Contractor shall prepare for Owner's review and acceptance prior to commencement of work on the Site, for purposes of contract administration, a schedule of submittals (also referred to as a submittal register) required to complete the Work, prepared by Contractor and accepted by Owner for contract administration. Schedule of submittals shall include, for each submittal: the specification or drawing reference requiring the submittal, if applicable; the material, item, or process for which the submittal is required; the submittal number and identifying title of the submittal; the Contractor's anticipated submission date and the approval need date.
- B. Contractor shall update monthly the schedule of submittals to reflect actual submission and acceptance dates for submittals. Review by Owner of schedule of submittals does not excuse Contractor of obligation to supply, schedule and coordinate all submittals required by the Contract Documents.
- C. Following is a list of anticipated submittals. Please refer to the technical specifications and incorporated Reports (i.e. Soil Sampling Report and Soil Remediation Work Plan, and Hazardous Materials Survey Report) for any additional submittals not specifically mentioned in this section.
 - 1. Safety Plan (See Section 09970)
 - 2. Water Pollution Control Plan / Spill Prevention Plan (See Section 09970)
 - 3. Injury Illness Prevention Plan / Worker Protection Program (See Section 09970)
 - 4. Testing and Evaluation Programs (Air, Soil, Water Quality) (See Section 09970)
 - 5. Sampling, Handling, Testing and Disposal of Debris (See Section 09970)
 - 6. Tests, Certificates
 - 7. Record Drawings

1.03 CONTRACTOR TO SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SUBMITTALS.

- A. Contractor shall review for compliance with Contract Documents, approve and submit to Owner Shop Drawings, Product Data, Samples and similar submittals required by Contract Documents.
- B. Contractor shall schedule and submit concurrently submittals covering component items forming a system or items that are interrelated. Contractor shall include certifications to be submitted with the pertinent drawings at the same time.
- C. Contractor shall coordinate scheduling, sequencing, preparing and processing of all submittals with performance of work so that work will not be delayed by submittal processing.

Submittals

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Phase 1A

- D. Submittals shall specifically identify any Work depicted that does not conform to the Contract Documents.

1.04 OWNER REVIEW OF SHOP DRAWINGS, PRODUCT DATA AND SUBMITTALS.

- A. After review by Owner of each Submittal, material will be returned to Contractor with actions defined as follows:
1. NO EXCEPTIONS TAKEN - Accepted subject to its compatibility with general design concept of the Work, future Submittals and additional partial Submittals for any portions of the Work not covered in this Submittal. Does not constitute acceptance or deletion of specified or required items not shown on the Submittal.
 2. MAKE CORRECTIONS NOTED (NO RESUBMISSIONS REQUIRED) - Same as item 1 above, except that minor corrections as noted shall be made by Contractor.
 3. REVISE AS NOTED AND RESUBMIT - Rejected because of major inconsistencies or errors that shall be resolved or corrected by Contractor prior to subsequent review by Owner.
 4. REJECTED - RESUBMIT - Submitted material does not conform to Drawings and/or Specifications in major respect, i.e.: wrong size, model, capacity, or material.
- B. Favorable review will not constitute acceptance by Owner of any responsibility for the accuracy, coordination, or completeness of the Submittals. Accuracy, coordination, and completeness of Submittals shall be sole responsibility of Contractor, including responsibility to back-check comments, corrections, and modifications from Owner's review before fabrication. Contractor, Subcontractors, or suppliers may prepare Submittals, but Contractor shall ascertain that Submittals meet requirements of Contract Documents, while conforming to structural space and access conditions at point of installation. Owner's review will be only to assess if the items covered by the Submittals will, after installation or incorporation in the Work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed Project as indicated by the Contract Documents. Favorable review of Submittal, method of Work, or information regarding materials and equipment Contractor proposes to furnish shall not relieve Contractor of responsibility for errors therein and shall not be regarded as assumption of risks or liability by Owner, or any officer or employee thereof, and Contractor shall have no claim under Contract Documents on account of failure or partial failure or inefficiency or insufficiency of any plan or method of Work or material and equipment so accepted. Favorable review shall be considered to mean merely that Owner has no objection to Contractor using, upon Contractor's own full responsibility, plan or method of Work proposed, or furnishing materials and equipment proposed.
- C. Unless otherwise specified, Owner's review will not extend to the means, methods, techniques, sequences, or procedures of construction or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.
- D. Contractor shall perform no portion of the Work for which the Contract Documents require submittal and review of Shop Drawings, Product Data, Samples or similar submittals until the respective submittal has been favorably reviewed by the Owner; otherwise, any such Work is at Contractor's sole risk.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION

Submittals

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Fort Ord Military Reservation Property
Deconstruction and Demolition Project
Phase 1A

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01 4100

REGULATORY REQUIREMENTS

PART 1 – GENERAL

1.01 SUMMARY

A. Section includes:

1. Regulatory requirements applicable to Contract Documents
2. Required provisions under Local Agency Disputes Act
3. Required references under federal law

1.02 GENERAL

A. Compliance with Laws

1. Conform to all applicable codes, laws, ordinances, rules and regulations, which shall have full force and effect as though printed in full in these Specifications. Codes, laws, ordinances, rules, regulations and ordinances (**Regulatory Requirements**) are not furnished to Contractor, because Contractor is assumed to be familiar with these requirements.
2. Any listing of Regulatory Requirements for hazardous waste abatement Work in the Contract Documents is supplied to Contractor as a courtesy and shall not limit Contractor's responsibility for complying with all applicable Regulatory Requirements having application to the Work. Where conflict among the Regulatory Requirements or with these Specifications occurs, the most stringent requirements shall be used.
3. Specific reference in the Specifications to codes and regulations or requirements of regulatory agencies shall mean the latest printed edition of each adopted by the regulatory agency in effect at the time of the opening of Bids, except as may be otherwise specifically stated in the Contract Documents.

B. Precedence

1. Where specified requirements differ from Regulatory Requirements, the more stringent requirements shall take precedence. Where Drawings or Specifications require or describe products or execution of better quality, higher standard or greater size than required by Regulatory Requirements, then Drawings and Specifications shall take precedence so long as such increase is legal. Where no requirements are identified on Drawings or in Specifications, comply with all Regulatory Requirements of governing authorities having jurisdiction.
2. Should any conditions develop not covered by the Contract Documents wherein the finished Work will not comply with current codes, a Change Order detailing and specifying the required Work shall be submitted to and approved by Owner before proceeding with the Work.

1.03 REGULATORY REQUIREMENTS

A. Applicable Codes

1. Codes that apply to Contract Documents include all Codes applicable to construction, including, but not limited to, the following:
 - a. California Building Code (2016 Edition or latest applicable code) as amended by applicable local ordinances for all construction work.

Regulatory Requirements

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- b. California Electrical Code (2016 Edition or latest applicable code) as amended by applicable local ordinances for all construction work.
- c. California Plumbing Code (2016 Edition or latest applicable code) as amended by applicable local ordinances for plumbing, sewage disposal and health requirements.
- d. California Mechanical Code (2016 Edition or latest applicable code) as amended by applicable local ordinances for all construction work.
- e. International Fire Code (2016 Edition or latest applicable code) as amended by applicable local ordinances for all construction work.
- f. California Administrative Code Titles 15, 19 and 24 (with California amendments), and Americans with Disabilities Act (ADA) accessibility guidelines, whichever is more stringent.
- g. All State laws and City and County Ordinances, rules of the State or City or County Health Departments, rules of the National Board of Fire Underwriters and National Fire Protection Associations, and local power company regulations for mechanical and electrical work.

B. Applicable Laws, Statutes, Ordinances, Rules, And Regulations

- 1. During prosecution of Work to be done under Contract Documents, Contractor shall comply with applicable laws, ordinances, rules and regulations, including, but not limited to, the following:
 - a. Federal:
 - 1) Americans With Disabilities Act of 1990
 - 2) 29 CFR, Section 1910.1001, Asbestos
 - 3) 40 CFR, Subpart M, National Emission Standards for Asbestos
 - 4) Executive Order 11246
 - 5) Federal Endangered Species Act
 - 6) Clean Water Act
 - b. State of California:
 - 1) California Code of Regulations, Titles 5, 8, 17, 19, 21, 22, 24 and 25
 - 2) California Public Contract Code
 - 3) California Health and Safety Code
 - 4) California Government Code
 - 5) California Labor Code
 - 6) California Civil Code
 - 7) California Code of Civil Procedure
 - 8) CPUC General Order 95, Rules for Overhead Electric Line Construction
 - 9) CPUC General Order 128, Rules for Construction of Underground Electric Supply and Communications Systems
 - 10) Cal/OSHA
 - 11) OSHA: Hazard Communications Standards
 - 12) California Endangered Species Act
 - 13) Water Code
 - 14) Fish and Game Code
 - c. State of California Agencies:
 - 1) State and Consumer Services Agency
 - 2) Office of the State Fire Marshall
 - 3) Office of Statewide Health Planning and Development
 - 4) Department of Fish and Game
 - 5) All Air Quality Management Districts with jurisdiction
 - 6) All Regional Water Quality Control Boards with jurisdiction
 - 7) Division of the State Architect (if having jurisdiction)

d. All Local Agencies with jurisdiction (cities, counties, fire departments)

C. Change Orders and Claims:

1. The California Public Contract Code, including but not limited to Section 7105(d)(2), and the California Government Code Section 930.2 et seq., apply to all contract procedures for changes, time extensions, change orders (time or compensation) and claims.
2. Any change, waiver, or omission to implement contract change order and claim procedures shall have no legal effect unless expressly permitted in a fully executed change order approved by Contractor and Owner and approved as to form by their respective legal counsel.

D. Required Provisions On Contract Claim Resolution

1. The California Public Contract Code specifies required provisions on resolving contract claims less than \$375,000, which are set forth below, and constitute a part of this Contract.
2. For the purposes of this section, "Claim" means a separate demand by Contractor of \$375,000 or less for (1) a time extension, (2) payment or money or damages arising from Work done by or on behalf of Contractor arising under the Contract Documents and payment of which is not otherwise expressly provided for or the Claimant is not otherwise entitled to, or (3) an amount the payment of which is disputed by Owner. In order to qualify as a Claim, the written demand must state that it is a Claim submitted under paragraph 12 of Document 00 7200 (General Conditions) and be submitted in compliance with all requirements of Document 00 7200 (General Conditions), paragraph 12. Separate Claims which total more than \$375,000 do not qualify as a "separate demand of \$375,000 or less," as referenced above, and are not subject to this section.
3. A voucher, invoice, payment application, or other routine or authorized form of request for payment is not a Claim for purposes of this section. If such request is disputed as to liability or amount, then the disputed portion of the submission may be converted to a Claim under this section by submitting a separate claim in compliance with Contract Documents claim submission requirements.
4. Caution. This section does not apply to tort claims and nothing in this section is intended nor shall be construed to change the time periods for filing tort claims or actions specified by Chapter 1 and Chapter 2 of Part 3 of Division 3.6 of Title 1 of the California Government Code.
5. Procedure:
 - a. The Claim must be in writing, submitted in compliance with all requirements of Document 00 7200 (General Conditions), paragraph 12, including, but not limited to, the time prescribed by and including the documents necessary to substantiate the Claim, pursuant to Document 00 7200 (General Conditions), paragraph 12.3. Claims must be filed on or before the day of final payment. Nothing in this section is intended to extend the time limit or supersede notice requirements for the filing of claims as set forth in Document 00 7200 (General Conditions), paragraph 12 or elsewhere in the Contract Documents.
 - b. For Claims of fifty thousand dollars (\$50,000) or less, Owner shall respond in writing within forty-five (45) days of receipt of the Claim, or Owner may request in writing within thirty (30) days of receipt of the Claim, any additional documentation supporting the Claim or relating to any defenses or claims Owner may have against Claimant. If additional information is thereafter required, it shall be requested and provided in accordance with this section upon mutual agreement of Owner and Claimant. Owner's written response to the Claim, as further documented, shall be submitted to Claimant within fifteen (15) days after receipt of further documentation or within a period of time no greater than taken by Claimant in producing the additional information, whichever is greater.
 - c. For Claims over Fifty Thousand Dollars (\$50,000) and less than or equal to \$375,000: Owner shall respond in writing within sixty (60) days of receipt of the

Claim, or Owner may request in writing within thirty (30) days of receipt of the Claim, any additional documentation supporting the Claim or relating to any defenses or claims Owner may have against Claimant. If additional information is thereafter required, it shall be requested and provided in accordance with this section, upon mutual agreement of Owner and Claimant; Owner's written response to the Claim, as further documented, shall be submitted to Claimant within thirty (30) days after receipt of further documentation or within a period of time no greater than taken by Claimant in producing the additional information, whichever is greater.

- d. Meet and Confer: If Claimant disputes Owner's written response, or Owner fails to respond within the time prescribed above, Claimant shall notify Owner, in writing, either within fifteen (15) days of receipt of Owner's response or within fifteen (15) days of Owner's failure to timely respond, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon demand Owner will schedule a meet and confer conference within thirty (30) days for settlement of the dispute.
- e. Following the meet and confer conference, if the Claim or any portion remains in dispute, Claimant may file a claim as provided in Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the California Government Code. For purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time Claimant submits its written claim as set forth herein, until the time that Claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer process.

E. Compliance With Americans With Disabilities Act

1. Contractor acknowledges that, pursuant to the Americans with Disabilities Act (ADA), programs, services and other activities provided by a public entity to the public, whether directly or through a Contractor, must be accessible to the disabled public. Contractor shall provide the services specified in the Contract Documents in a manner that complies with the ADA and any and all other applicable federal, state and local disability rights legislation. Contractor agrees not to discriminate against disabled persons in the provision of services, benefits or activities provided under the Contract Documents and further agrees that any violation of this prohibition on the part of Contractor, its employees, agents or assigns shall constitute a material breach of the Contract Documents.

F. Compliance With IRCA

1. Contractor acknowledges that Contractor, and all subcontractors hired by Contractor to perform services under this Agreement, are aware of and understand the Immigration Reform and Control Act ("IRCA"). Contractor is and shall remain in compliance with the IRCA and shall ensure that any subcontractors hired by Contractor to perform services under this Agreement are in compliance with the IRCA. In addition, Contractor agrees to indemnify, defend and hold harmless Owner, its agents, officers and employees, from any liability, damages or causes of action arising out of or relating to any claims that Contractor's employees, or employees of any subcontractor hired by Contractor, are not authorized to work in the United States for Contractor or its subcontractor and/or any other claims based upon alleged IRCA violations committed by Contractor or Contractor's subcontractors.

PART 2 – PRODUCTS – NOT USED

PART 3 – EXECUTION – NOT USED

END OF SECTION

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01 4200

REFERENCES AND DEFINITIONS

PART 1 - GENERAL

1.01 SUMMARY

A. Section Includes:

1. Reference standards, abbreviations, symbols, and definitions used in Contract Documents.
2. Full titles are given in this Section for standards cited in other Sections of Specifications.

1.02 REFERENCE TO STANDARDS AND SPECIFICATIONS OF TECHNICAL SOCIETIES; REPORTING AND RESOLVING DISCREPANCIES

A. References

1. Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard, specification, manual, code, or laws or regulations in effect at the time of opening of Bids, except as may be otherwise specifically stated in the Contract Documents.
2. If during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any provision of any such law or regulation applicable to the performance of the Work or of any such standard, specification, manual, or code or of any instruction of any supplier, Contractor shall report it in writing at once to Owner's Representative and Architect/Engineer, and Contractor shall not proceed with the Work affected thereby until consent to do so is given by Owner.

B. Precedence

1. Except as otherwise specifically stated in the Contract Documents or as may be provided by Change Order, CCD, or Supplemental Instruction, the provisions of the Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:
 - a. The provisions of any such standard, specification, manual, code, or instruction (whether or not specifically incorporated by reference in the Contract Documents); or
 - b. The provisions of any such laws or regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such law or regulation).
2. No provision of any such standard, specification, manual, code, or instruction shall be effective to change the duties and responsibilities of Owner, Owner's Representative, Architect/Engineer or Contractor, or any of their subcontractors, consultants, agents, or employees, from those set forth in the Contract Documents, nor shall it be effective to assign to Owner, Architect/Engineer, or any of their consultants, agents, representatives or employees any duty or authority to supervise or direct the furnishing or performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract Documents.

C. **Referenced Grades, Classes, and Types:**

1. Where an alternative or optional grade, class, or type of product or execution is included in a reference but is not identified in Drawings or in Specifications, provide the highest, best, and greatest of the alternatives or options for the intended use and prevailing conditions.

D. **Edition Date of References:**

1. When an edition or effective date of a reference is not given, it shall be understood to be the current edition or latest revision published as of the date of opening Bids.
2. All amendments, changes, errata and supplements as of the effective date shall be included.

E. **ASTM and ANSI References:** Specifications and Standards of the American Society for Testing and Materials (ASTM) and the American National Standards Institute (ANSI) are identified in the Drawings and Specifications by abbreviation and number only and may not be further identified by title, date, revision, or amendment. It is presumed that Contractor is familiar with and has access to these nationally- and industry-recognized specifications and standards.

1.03 DEFINITIONS

A. **Meaning of Words and Phrases**

Wherever any of the words or phrases defined below, or a pronoun used in place thereof, is used in any part of the Contract Documents, it shall have the meaning here set forth. Where abbreviations and symbols are used, such abbreviations and symbols shall be given their common meaning in the construction industry. In the Contract Documents, the neuter gender includes the feminine and masculine, and the singular number includes the plural.

While Owner has made an effort to identify all defined terms with initial caps, the following definitions shall apply regardless of case unless the context otherwise requires:

1. Addenda: Written or graphic instruments issued prior to the opening of Bids, which clarify, correct, or change the bidding requirements or the Contract Documents. Addenda shall not include the minutes of the Pre-Bid Conference and/or Site Visit.
2. Agreement (Document 00 5200): Agreement is the basic Contract Document that binds the parties to construction Work. Agreement defines relationships and obligations between Owner and Contractor and by reference incorporates Conditions of Contract, Drawings, and Specifications and contains Addenda and all Modifications subsequent to execution of Contract Documents.
3. Alternate: Work added to or deducted from the base Bid, if accepted by Owner.
4. Application for Payment: Written application for monthly or periodic progress or final payment made by Contractor complying with the Contract Documents.
5. Approved Equal: Approved in writing by Owner as being of equivalent quality, utility and appearance.
6. Architect/Engineer: If used elsewhere in the Contract Documents, "Architect/Engineer" shall mean a person (or that person's firm) holding a valid California State Architect's or Engineer's license representing the Owner in the administration of the Contract Documents. Architect/Engineer may be an employee of or an independent consultant to Owner. When Architect/Engineer is referred to within the Contract Documents and not an employee of Owner, Architect/Engineer shall be construed to include employees of Architect/Engineer and/or employees that Architect/Engineer supervises. When the designated Architect/Engineer is an employee of Owner, his or her authorized representatives on the Project will be included under the term Architect/Engineer. If Architect/Engineer is an employee of Owner, Architect/Engineer is the beneficiary of all

Contractor obligations to Owner, including without limitation, all releases and indemnities. Architect/Engineer may also be referred to as Architect or Engineer.

7. Asbestos: Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by OSHA or Cal/OSHA.
8. Bid: The offer or proposal of the Bidder submitted on the prescribed form(s) setting forth the prices for the Work to be performed.
9. Bidder: One who submits a Bid.
10. Bidding Documents: All documents comprising the Project Manual (including all documents and Specification Sections listed in Document 00 0110 [Table of Contents]), including documents supplied for bidding purposes only and Contract Documents.
11. Board: The governing body of the Owner.
12. Business Day: Any Day other than Saturday, Sunday, and the following days that have been designated as holidays by Owner. If a holiday falls on a Saturday, the preceding Friday will be the holiday. If a holiday falls on a Sunday, the following Monday will be the holiday.
 - a. New Year's Day, January 1;
 - b. Martin Luther King Jr.'s Birthday, third Monday in January;
 - c. Presidents' Day, third Monday in February;
 - d. Cesar Chavez Day, March 31;
 - e. Memorial Day, last Monday in May;
 - f. Independence Day, July 4;
 - g. Labor Day, first Monday in September;
 - h. Veterans' Day, November 11;
 - i. Thanksgiving Day, as designated by the President;
 - j. The Day following Thanksgiving Day;
 - k. The Day preceding Christmas Day, December 24;
 - l. Christmas Day, December 25; and
 - m. Each day appointed by the Governor of California and formally recognized by the Governing Board as a day of mourning, thanksgiving, or special observance.
13. By Owner: Work that will be performed by Owner or its agents at the Owner's expense.
14. By Others: Work that is outside scope of Work to be performed by Contractor under this Contract, which will be performed by Owner, other contractors, or other means.
15. Change Order: A written instrument prepared by Owner and signed by Owner and Contractor, stating their agreement upon all of the following:
 - a. a change in the Work;
 - b. the amount of the adjustment in the Contract Sum, if any; and
 - c. the amount of the adjustment in the Contract Time, if any.
16. Code Inspector: A local or state agency responsible for the enforcement of applicable codes and regulations.
17. Concealed: Work not exposed to view in the finished Work, including within or behind various construction elements.
18. Construction Change Directive ("CCD"): A written order prepared and signed by Owner, directing a change in the Work and stating a proposed basis for adjustment, if any, in the Contract Sum or Contract Time, or both.
19. Contract Amount: a change order price, line item price, Contract Sum, or other price assigned to a scope of work.
20. Contract Conditions or Conditions of the Contract: Consists of two parts: General Conditions and Supplementary Conditions.

- a. General Conditions are general clauses that are common to the Owner Contracts, including Document 00 7200 (General Conditions).
 - b. Supplementary Conditions modify or supplement General Conditions to meet specific requirements for Contract Documents, including Document 00 7201 (Supplementary Conditions).
21. Contract Documents and Contract: Contract Documents and Contract shall consist of the documents identified as the Contract Documents in Document 00 5200 (Agreement), plus all changes, Addenda, and modifications thereto.
22. Contract Modification: Either:
- a. a written amendment to Contract signed by Contractor and Owner; or
 - b. a Change Order; or
 - c. a Construction Change Directive; or
 - d. a written directive for a minor change in the Work issued by Owner.
23. Contract Sum: The sum stated in the Agreement and, including authorized adjustments, the total amount payable by Owner to Contractor for performance of the Work and the Contract Documents. The Contract Sum is also sometimes referred to as the Contract Price or the Contract Amount.
24. Contract Time: The number or numbers of Days or the dates stated in the Agreement to achieve Substantial Completion of the Work or designated Milestones; and/or to achieve Final Completion of the Work so that it is ready for final payment and is accepted.
25. Contractor: The person or entity identified as such in the Agreement and referred to throughout the Contract Documents as if singular in number and neutral in gender. The term "Contractor" means the Contractor or its authorized representative.
26. Contractor's Employees: Persons engaged in execution of Work under Contract as direct employees of Contractor, as Subcontractors, or as employees of Subcontractors.
27. Day: One calendar day of 24 hours measured from midnight to the next midnight, unless the word "day" is specifically modified to the contrary.
28. Defective: An adjective which, when modifying the word "Work," refers to Work that is unsatisfactory or unsuited for the use intended, faulty, or deficient, that does not conform to the Contract Documents, or does not meet the requirements of any inspection, reference standard, test or approval referred to in the Contract Documents (including but not limited to approval of Samples and "or equal" items), or has been damaged prior to final payment (unless responsibility for the protection thereof has been assumed by Owner). Unapproved substitutions are defective. Owner is the judge of whether Work is Defective.
29. Division of State Architect: A division of the State of California providing, design and construction oversight for K-12 schools and community colleges, and developing and maintaining accessibility standards and codes utilized in public and private buildings throughout the State of California.
30. Drawings: The graphic and pictorial portions of Contract Documents, wherever located and whenever issued, showing the design, location and dimensions of the Work, generally including plans, elevations, sections, details, schedules, and diagrams.
31. Equal: Equal in opinion of Owner. Burden of proof of equality is responsibility of Contractor.
32. Final Acceptance or Final Completion: Owner's acceptance of the Work as satisfactorily completed in accordance with Contract Documents. Requirements for Final Acceptance/Final Completion include, but are not limited to:
- a. Final cleaning is completed.
 - b. All systems having been tested and accepted as having met requirements of Contract Documents.
 - c. All required instructions and training sessions having been given by Contractor.

- d. All Project Record Documents having been submitted by Contractor, reviewed by Owner, and accepted by Owner.
 - e. All punch list Work, as directed by Owner, having been completed by Contractor.
 - f. Generally all Work, except Contractor maintenance after Final Acceptance/Final Completion, having been completed to satisfaction of Owner.
33. Force Account: Work directed to be performed without prior agreement as to lump sum or unit price cost thereof, and which is to be billed at cost for labor, materials, equipment, taxes, and other costs, plus a specified percentage for overhead and profit.
 34. Exposed: Work exposed to view in the finished Work, including behind louvers, grilles, registers and various other construction elements.
 35. Furnish: Supply only, do not install.
 36. Indicated: Shown or noted on the Drawings.
 37. Install: Install or apply only, do not furnish.
 38. Latent: Not apparent by reasonable inspection, including but not limited to, the inspections and research required as a condition to bidding under Document 00 7200 (General Conditions).
 39. Law: Unless otherwise limited, all applicable laws including without limitation all federal, state, and local laws, statutes, standards, rules, regulations, ordinances, and judicial and administrative decisions.
 40. Lead: Any material with a detectable lead in excess of the reporting limits of 0.010% of weight.
 41. Material: This word shall be construed to embrace machinery, manufactured articles, materials of construction (fabricated or otherwise), and any other classes of material to be furnished in connection with Contract, except where a more limited meaning is indicated by context.
 42. Milestone: A principal event specified in Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all Work.
 43. Modification: Same as Contract Modification.
 44. Not in Contract or "NIC": Work that is outside the scope of Work to be performed by Contractor under Contract Documents.
 45. Notice of Completion: Shall have the meaning provided in California Civil Code §3093, and any successor statute.
 46. Off Site: Outside geographical location of the Project.
 47. Owner: Owner is defined in Document 00 5200 (Agreement).
 48. Owner-Furnished, Contractor Installed: Items furnished by Owner at its cost for installation by Contractor at its cost under Contract Documents.
 49. Owner's Representative(s): See Document 00 5200 (Agreement).
 50. Partial Utilization: Use by Owner of a substantially completed part of the Work for the purpose for which it is intended (or a related purpose) prior to Substantial Completion of all of the Work.
 51. PCBs: Polychlorinated byphenyls.
 52. Phase: A specified portion of the Work (if any) specifically identified as a Phase in Document 00 5200 (Agreement) or Document 01 1100 (Summary). For this Project, "Phase 1A" does not represent a "portion", but a designation for sequencing in the overall development for Campus Town.
 53. Product Data: That information (brochures, catalog sheets, manufacturer's cut sheets, etc.) supplied by vendors having technical and commercial characteristics of the supplied equipment or materials and accompanying commercial terms such as warranties, instructions, and manuals.

54. Progress Report: A periodic report submitted by Contractor to Owner with progress payment invoices accompanying progress schedule. See Document 00 7200 (General Conditions).
55. Project: Total construction of which Work performed under Contract Documents may be whole or part.
56. Project Manager: If used elsewhere in the Contract Documents, "Project Manager" shall mean a person representing the Owner in the administration of the Contract Documents. Project Manager may be an employee of or an independent consultant to Owner. When Project Manager is referred to within the Contract Documents and no Project Manager has in fact been designated, then the matter shall be referred to Owner. The term Project Manager shall be construed to include employees of Project Manager and/or employees that Project Manager supervises. When the designated Project Manager is an employee of Owner, his or her authorized representatives on the Project will be included under the term Project Manager. If Project Manager is an employee of Owner Project Manager is the beneficiary of all Contractor obligations to Owner, including without limitation, all releases and indemnities.
57. Project Manual: Project Manual consists of Bidding Requirements, Agreement, Bonds, Certificates, Contract Conditions, Drawings, and Specifications.
58. Project Record Documents: All Project deliverables required under the Contract Documents, including without limitation, as built drawings; Installation, Operation, and Maintenance Manuals; and Machine Inventory Sheets.
59. Provide: Furnish and install.
60. Request for Information ("RFI"): A document prepared by Contractor requesting information regarding the Project or Contract Documents. The RFI system is also a means for Owner to submit Contract Document clarifications or supplements to Contractor.
61. Request for Proposals ("RFP"): A document issued by Owner to Contractor whereby Owner may initiate changes in the Work or Contract Time as provided in Contract Documents.
62. Request for Substitution ("RFS"): A document prepared by Contractor requesting substitution of materials as permitted and to the extent permitted in Contract Documents.
63. RFI-Reply: A document consisting of supplementary details, instructions, or information issued by Owner that clarifies or supplements Contract Documents, and with which Contractor shall comply. RFI-Replies do not constitute changes in Contract Sum or Contract Time except as otherwise agreed in writing by Owner. RFI-Replies will be issued through the RFI administrative system.
64. Samples: Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.
65. Shop Drawings: All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.
66. Shown: As indicated on Drawings.
67. Site: The particular geographical location of Work performed pursuant to the Contract Documents.
68. Specifications: The written portion of the Contract Documents consisting of requirements for materials, equipment, construction systems, standards, and workmanship for the Work; performance of related services.
69. Specified: As written in Specifications.
70. Subcontractor: A person or entity that has a direct contract with Contractor to perform a portion of the Work at the Site. The term "Subcontractor" is referred to throughout the Contract Documents as if singular in number and neutral in gender and means a

Subcontractor or an authorized representative of the Subcontractor. The term "Subcontractor" does not include a separate contractor or subcontractors of a separate contractor.

71. **Substantial Completion:** The Work (or a specified part thereof) has progressed to the point where, in the opinion of Owner as evidenced by a notice or certificate of Substantial Completion, the Work is sufficiently complete, in accordance with Contract Documents, so that the Work (or specified part) can be utilized for the purposes for which it is intended, and unperformed or incomplete work elements are minor in nature; or if no such certificate is issued, when the Work (or specified part) is complete and ready for final payment as evidenced by written recommendation of Owner for final payment. The terms "Substantially Complete" and "Substantially Completed" as applied to all or part of the Work refer to Substantial Completion thereof.
72. **Supplemental Instruction:** A written directive from Owner to Contractor ordering alterations or Modifications that do not result in change in Contract Sum or Contract Time, and do not substantially change Drawings or Specifications.
73. **Testing and Special Inspection Agency:** An independent entity engaged to inspect and/or test the workmanship, materials, or manner of construction of buildings or portions of buildings, to determine if such construction complies with the Contract Documents and applicable codes.
74. **Underground Facilities:** All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments, and any encasements containing such facilities that have been installed underground to furnish any of the following services or materials: Electricity, gases, chemicals, steam, liquid petroleum products, telephone or other communications, cable television, sewage and drainage removal, traffic or other control systems, or water.
75. **Unit Price Work:** Shall be the portions of the Work for which a unit price is provided in Document 00 5200 (Agreement) or Section 01 1100 (Summary).
76. **Work:** The entire completed construction, or the various separately identifiable parts thereof, required to be furnished under the Contract Documents within the Contract Time. Work includes and is the result of performing or furnishing labor and furnishing and incorporating materials and equipment into the construction, and performing or furnishing services and furnishing documents, all as required by the Contract Documents including everything shown in the Drawings and set forth in the Specifications. Wherever the word "work" is used, rather than the word "Work," it shall be understood to have its ordinary and customary meaning.

B. **Other Defined Terms**

The following terms are not necessarily identified with initial caps; however they shall have the meaning set forth below:

1. Wherever words "as directed," "as required," "as permitted," or words of like effect are used, it shall be understood that direction, requirements, or permission of Owner is intended. Words "sufficient," "necessary," "proper," and the like shall mean sufficient, necessary, or proper in judgment of Owner. Words "approved," "acceptable," "satisfactory," "favorably reviewed," or words of like import, shall mean approved by, or acceptable to, or satisfactory to, or favorably reviewed by Owner.
2. Wherever the word "may" or "ought" is used, the action to which it refers is discretionary. Wherever the word "shall" or "will" is used, the action to which it refers is mandatory.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION

DIVISION 1 GENERAL REQUIREMENTS

SECTION 01 7700

CONTRACT CLOSEOUT

PART 1 - GENERAL

1.01 SUMMARY

A. Section describes requirements and procedures for:

1. Substantial Completion
2. Final Completion
3. Close Out
4. Warranties

1.02 SUBSTANTIAL COMPLETION

A. Removal of Temporary Construction Facilities and Project Cleaning.

1. Prior to Substantial Completion inspection: remove temporary materials, equipment, services, and construction; clean all areas affected by the Work; clean and repair damage caused by installation or use of temporary facilities; restore permanent facilities used during construction to specified condition.

B. Procedure for Substantial Completion

1. When Contractor considers Work or designated portion of the Work as Substantially Complete, submit written notice to Owner, with list of items remaining to be completed or corrected and explanation of why such items do not prevent Owner's beneficial use and occupancy of the Work for its intended purposes. Within reasonable time, Owner will inspect to determine status of completion.
2. Should Owner determine that Work is not Substantially Complete, Owner will promptly notify Contractor in writing, listing all defects and omissions. Contractor shall remedy deficiencies and send a second written notice of Substantial Completion. Owner will reinspect the Work. If deficiencies previously noted are not corrected on reinspection, then pay the cost of the reinspection.
3. When Owner concurs that Work is Substantially Complete, Owner will issue a written notice or certificate of Substantial Completion, accompanied by Contractor's list of items to be completed or corrected as verified by Owner.
4. A punch list examination will be performed upon Substantial Completion. One follow-up review of punch list items for each discipline will be provided. If further Site visits are required to review punch list items due to incompleteness of the Work by Contractor, Contractor will reimburse Owner for costs associated with these visits.

1.03 FINAL COMPLETION

A. Requirements

1. Final Completion occurs when Work meets requirements for Owner's Final Acceptance.

B. Procedure

1. When Contractor considers Work is Finally Complete, submit written certification that:
 - a. Contractor has inspected Work for compliance with Contract Documents, and all requirements for Final Acceptance have been met.

- b. Except for Contractor maintenance after Final Acceptance, Work has been completed in accordance with Contract Documents and deficiencies listed with Certificate of Substantial Completion have been corrected.
 - c. Project Record Documents are completed and turned over to Owner, and Work is complete and ready for final inspection.
 2. In addition to submittals required by Contract Documents, provide submittals required by governing authorities and submit final statement of accounting giving total adjusted Contract Sum, previous payments, and sum remaining due.
 3. Should Owner determine that Work is incomplete or Defective, Owner promptly will so notify Contractor, in writing, listing the incomplete or Defective items. Contractor shall promptly remedy the deficiencies and notify the Owner when it is ready for reinspection.
- C. **Final Adjustments of Accounts:**
 1. Submit a final statement of accounting to Owner, showing all adjustments to the Contract Sum and complete and execute Document 00 6530 (Agreement and Release of Claims).
 2. If so required, Owner shall prepare a final Change Order for submittal to Contractor, showing adjustments to the Contract Sum that were not previously made into a Contract Modification.
- D. **Warranties**
 1. Submit material prior to final Application for Payment. For items of Work delayed materially beyond Date of Substantial Completion, provide updated Submittal within 14 Days after acceptance, listing date of acceptance as start of warranty period.
 2. Warranty Forms: Submit drafts to Owner for approval prior to execution. Forms shall not detract from or confuse requirements or interpretations of Contract Documents.
 3. Rejection of Warranties: Owner reserves right to reject unsolicited and coincidental product warranties that detract from or confuse requirements or interpretations of Contract Documents.
 4. Term of Warranties: For materials and workmanship, warranty period shall be two years minimum from date of Final Completion of entire Work except where:
 - a. Detailed Specifications for certain materials, equipment or systems require longer warranty periods.
 - b. Materials, equipment or systems are put into beneficial use of Owner prior to Final Completion as agreed to in writing by Owner.
- E. **Warranty of Title:**
 1. No material, supplies, or equipment for Work under Contract shall be purchased subject to any chattel mortgage, security agreement, or under a conditional sale or other agreement by which an interest therein or any part thereof is retained by seller or supplier. Contractor warrants good title to all material, supplies, and equipment installed or incorporated in Work and agrees upon completion of all Work to deliver premises, together with improvements and appurtenances constructed or placed thereon by Contractor, to Owner free from any claim, liens, security interest, or charges, and further agrees that neither Contractor nor any person, firm, or corporation furnishing any materials or labor for any Work covered by Contract shall have right to lien upon premises or improvement or appurtenances thereon. Nothing contained in this paragraph, however, shall defeat or impair right of persons furnishing materials or labor under bond given by Contractor for their protection or any rights under law permitting persons to look to funds due Contractor in hands of Owner.
- F. **Turn-In.** Contract Documents will not be closed out and final payment will not be made until all keys issued to Contractor during prosecution of Work and letters from property owners, pursuant to Contract Documents, are turned in to Owner.

- G. **Release of Claims.** Contract Documents will not be closed out and final payment will not be due or made until Document 00 6530 (Agreement and Release of Claims) is completed and executed by Contractor and Owner.
- H. **Fire Inspection Coordination.** Coordinate fire inspection and secure sufficient notice to Owner to permit convenient scheduling (if applicable).
- I. **Building Inspection Coordination.** Coordinate with Owner a final inspection for the purpose of obtaining an occupancy certificate (if applicable).

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION

**SECTION 003100
AVAILABLE PROJECT INFORMATION**

PART 1 GENERAL

1.01 EXISTING CONDITIONS

- A. Certain information relating to existing surface and subsurface conditions and structures is available to bidders and will be part of Contract Documents, as follows:
- B. Soil Sampling Report and Soil Remediation Plan: Entitled Soil Sampling Report and Soil Remediation Plan, Former Fort Ord - Phase 1A, dated March 4, 2022.
- C. Hazardous Material Survey Report: Entitled Hazardous Materials Survey Report, Former Fort Ord - Area 1, dated January 14, 2022.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 003100

**SECTION 011000
SUMMARY**

PART 1 GENERAL

1.01 PROJECT

- A. Project Name: Fort Ord Military Reservation Property Deconstruction and Demolition Project Phase 1A
- B. Owner's Name: City of Seaside.
- C. Engineer's Name: Harris & Associates.
- D. Environmental Consultant's Name (Hazardous Materials and Contaminated Soils): Vista Environmental Consulting
- E. The Project consists of the decontamination (proper removal and disposal of hazardous materials), deconstruction, and demolition of the Visitor Center, including its respective parking lot and site improvements.

1.02 CONTRACT DESCRIPTION

- A. Contract Type: A single prime contract based on a Stipulated Price.

1.03 DESCRIPTION OF ALTERATIONS WORK

- A. Scope of demolition and removal work is indicated on drawings and specified in Section 024100.
- B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.

1.04 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings.
 - 1. Locate and conduct construction activities in ways that will limit disturbance to site.
- B. Provide access to and from site as required by law and by Owner:
 - 1. Do not obstruct roadways, sidewalks, or other public ways without permit.
- C. Existing building spaces may not be used for storage.
- D. Time Restrictions:
 - 1. Limit conduct of the hours of 7 a.m. to 5 p.m..
- E. Utility Outages and Shutdown:
 - 1. Prevent accidental disruption of utility services to other facilities.

1.05 WORK SEQUENCE

- A. Construct Work in stages during the construction period:
 - 1. Proper Removal and Disposal of Asbestos-Containing Materials
 - 2. Proper Removal and Disposal of Lead-Based Paint and Lead-Containing Materials;
 - 3. Proper Removal and Disposal of Other Hazardous Materials Abatement (Universal Waste Materials, PCBs, Ozone-Depleting Devices, Miscellaneous);
 - 4. Waste Characterization Sampling and Segregation Activities (Hazardous Materials);
 - 5. Structure/Building Deconstruction, Demolition, Removal, and Proper Disposal;
 - 6. Parking Lot Lights Disassembly, Removal, and Proper Disposal;
 - 7. Utilities (Including Asbestos-Cement Piping) Demolition, Removal, and Proper Disposal;
 - 8. Removal of Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Within 5'-0" of Structure/Building (Level With Ground Surface, Does Not Include Root Systems);
 - 9. Initial Over-Excavation Beneath Structure/Building (2'-0" Depth);
 - 10. Secondary Over-Excavation Beneath Structure/Building (1'-0" Depth, Incremental);
 - 11. Asphalt Concrete Pavement Demolition, Removal, and Proper Disposal;

12. Initial Over-Excavation Beneath Hardscape Surfaces (2'-0" Depth);
13. Secondary Over-Excavation Beneath Hardscape Surfaces (1'-0" Depth, Incremental);
14. Final Site Grading and Preparation;
15. Type "A" Asphalt Concrete Berm/Dike

B. Coordinate construction schedule and operations with Owner.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 011000

**SECTION 015000
TEMPORARY FACILITIES AND CONTROLS**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Temporary utilities.
- B. Temporary sanitary facilities.
- C. Temporary Controls: Barriers, enclosures, and fencing.
- D. Security requirements.
- E. Vehicular access and parking.
- F. Waste removal facilities and services.

1.02 RELATED REQUIREMENTS

- A. Section 015100 - Temporary Utilities.
- B. Section 015500 - Vehicular Access and Parking.
- C. Section 015526 – Traffic Regulation

1.03 TEMPORARY UTILITIES - SEE SECTION 015100

1.04 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
- B. Maintain daily in clean and sanitary condition.

1.05 BARRIERS

- A. Provide barriers to prevent unauthorized entry to construction areas, to prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
- B. Provide barricades required by governing authorities for public rights-of-way.
- C. Provide protection for plants designated to remain. Replace damaged plants.
- D. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.06 FENCING

- A. Provide 6 foot high fence around construction site; equip with vehicular and pedestrian gates with locks.

1.07 SECURITY

- A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.

1.08 VEHICULAR ACCESS AND PARKING - SEE SECTION 015500

- A. Comply with regulations relating to use of streets and sidewalks, access to emergency facilities, and access for emergency vehicles.
- B. Coordinate access and haul routes with governing authorities and Owner.
- C. Provide and maintain access to fire hydrants, free of obstructions.
- D. Provide means of removing mud from vehicle wheels before entering streets.
- E. Designated existing on-site roads may be used for construction traffic.
- F. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

1.09 WASTE REMOVAL

- A. See Section 017419 - Construction Waste Management and Disposal, for additional requirements.
- B. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- C. Provide containers with lids. Remove trash from site periodically.
- D. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
- E. Open free-fall chutes are not permitted.

1.10 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to Date of Substantial Completion inspection.
- B. Remove underground installations to a minimum depth of 2 feet. Grade site as indicated.
- C. Clean and repair damage caused by installation or use of temporary work.
- D. Restore existing facilities used during construction to original condition.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 015000

**SECTION 015100
TEMPORARY UTILITIES**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Temporary Utilities: Provision of electricity and water.

1.02 RELATED REQUIREMENTS

- A. Section 015000 - Temporary Facilities and Controls:

1.03 REFERENCE STANDARDS

- A. 29 CFR 1926 - Safety and Health Regulations for Construction Current Edition.

1.04 TEMPORARY ELECTRICITY

- A. Cost: By Contractor.

1.05 TEMPORARY WATER SERVICE

- A. Cost of Water Used: By Contractor.
- B. Provide and maintain suitable quality water service for construction operations at time of project mobilization.
- C. Connect to existing water source.
 - 1. Exercise measures to conserve water.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION - NOT USED

END OF SECTION 015100

**SECTION 015500
VEHICULAR ACCESS AND PARKING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Access roads.
- B. Parking.
- C. Existing pavements and parking areas.
- D. Construction parking controls.
- E. Haul routes.
- F. Maintenance.
- G. Removal, repair.
- H. Mud from site vehicles.

1.02 RELATED REQUIREMENTS

- A. Section 011000 - Summary: For access to site, work sequence, and occupancy.
- B. Section 312200 - Grading: Specifications for earthwork.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Temporary Construction: Contractor's option.

PART 3 EXECUTION

3.01 PREPARATION

- A. Clear areas, provide surface and storm drainage of road, parking, area premises, and adjacent areas.

3.02 ACCESS ROADS

- A. Use of designated existing on-site streets and driveways for construction traffic is permitted.
- B. Provide unimpeded access for emergency vehicles. Maintain 20 foot width driveways with turning space between and around combustible materials.
- C. Provide and maintain access to fire hydrants free of obstructions.

3.03 PARKING

- A. Use of designated areas of existing parking facilities by construction personnel is permitted.
- B. Arrange for temporary parking areas to accommodate use of construction personnel.
- C. When site space is not adequate, provide additional off-site parking.

3.04 HAUL ROUTES

- A. Consult with authority having jurisdiction, establish public thoroughfares to be used for haul routes and site access.
- B. Confine construction traffic to designated haul routes.
- C. Provide traffic control at critical areas of haul routes to regulate traffic, to minimize interference with public traffic.

3.05 MAINTENANCE

- A. Maintain traffic and parking areas in a sound condition.
- B. Maintain existing paved areas used for construction; promptly repair breaks, potholes, low areas, standing water, and other deficiencies, to maintain paving and drainage in original, or specified, condition.

3.06 REMOVAL, REPAIR

- A. Remove underground work and compacted materials to a depth of 2 feet; fill and grade site as specified.
- B. Repair existing facilities damaged by use, to original condition.
- C. Remove equipment and devices when no longer required.
- D. Repair damage caused by installation.

3.07 MUD FROM SITE VEHICLES

- A. Provide means of removing mud from vehicle wheels before entering streets.

END OF SECTION 015500

SECTION 015526

TRAFFIC REGULATION

A. Description

This section describes procedures for traffic regulation during construction in public streets and highways.

B. Standard Specifications

Wherever reference is made to the State Specifications and Plans, such reference shall mean the State of California, Business, Transportation, and Housing Agency, Department of Transportation 2018 edition Standard Specifications and 2018 edition Standard Plans.

C. Submittals

The Contractor shall develop and submit a Traffic Control Plan, not less than 14 working days prior to start of construction operations, prepared, signed, and sealed by a California licensed civil or traffic engineer to the City of Seaside for approval. Preparation of any additional traffic control plans or detail that may be required by the City of Seaside during the course of the work shall be the Contractor's responsibility. No work shall begin involving or requiring alternate traffic control until a traffic control plan is approved by the City of Seaside.

D. General

1. Provide safe and continuous passage for pedestrian and vehicular traffic at all times.
2. Control traffic at those locations indicated and in conformance with the approved traffic control plans and specifications.
3. Furnish, construct, maintain, and remove detours, road closures, traffic signal equipment, lights, signs, barricades, fences, K-rail, flares, solar-powered flashing arrow signs, miscellaneous traffic devices, flagmen, drainage facilities, paving, and such other items and services as are necessary to adequately safeguard the public from hazard and inconvenience. All such work shall comply with the ordinances, directives, and regulations of authorities with jurisdiction over the public roads in which the construction takes place and over which detoured traffic is routed by the Contractor. After devices have been installed, maintain and keep them in good repair and working order until no longer required. Replace such devices that are lost or damaged, to such an extent as to require replacement, regardless of the cause of such loss or damage.
4. Prior to the start of construction operations, notify the police and fire department in whose jurisdiction the project lies, giving the expected starting date, completion date, and the names and telephone numbers of two responsible persons who may be contacted at any hour in the event of a condition requiring immediate emergency service to remove, install, relocate, and maintain warning devices. In the event these persons do not promptly respond or the authority deems it necessary to call out other forces to accomplish emergency service, the Contractor will be held responsible for the cost of such emergency service.
5. Provide a minimum of 48 hours' notice to the City of Seaside for any work which may affect signal loops, equipment, or devices. In the event that any underground utilities, traffic devices, pipes, or conduits are damaged and require emergency repair by the City of

Seaside, all costs incurred by the City of Seaside in making such repairs, plus 15% for administration costs, shall be paid by the Contractor.

6. Post temporary "No Parking - Tow Away" signs 48 hours prior to work in areas where parking is normally permitted. The City of Seaside Police Department shall be notified 72 hours prior to the posting of any temporary parking restrictions along the pipeline route.
7. Coordinate the relocation of public bus and school bus routes, bus stops, and trash collection services with the agencies impacted in advance of construction activity.
8. Post the construction information signs specified at least one week prior to construction.
9. Notify each postal address at least two working days prior to restricting parking along the project route via first class United States mail of the nature and duration of the parking restriction.

E. Traffic Control Devices and Signs

1. Traffic control devices and temporary striping shall conform to the California Manual of Uniform Traffic Control Devices (California MUTCD). Construction signs shall conform to the latest edition of the FHA publication "Standard Highway Signs" and the State of California Sign Specification Sheets.
2. The placement of construction signing, striping, barricades, and other traffic control devices used for handling traffic and public convenience shall conform to the California MUTCD and the "Work Area Traffic Control Handbook" (WATCH), latest edition. In case of discrepancy, WATCH takes precedence over the California MUTCD. WATCH is published by Building News, Inc.
3. Signs shall be reflectorized when they are used during hours of darkness. Cones and portable delineators used for night lane closures shall have reflective sleeves. Equip barricades used in the diversion of traffic with flashers if in place during hours of darkness.
4. During the duration of a detour, cover existing signs not in accordance with the traffic control plan. Relocate existing signs that are in force to provide visibility from all relocated traffic lanes.

F. Temporary Steel Plate Bridging, With a Nonskid Surface

1. When backfilling operations of an excavation in the traveled way, whether transverse or longitudinal, cannot be properly completed within a workday, provide steel plate bridging with a nonskid surface and shoring to preserve unobstructed traffic flow. In such cases, the following conditions shall apply:
 - a. Steel plates used for bridging shall extend a minimum of 12 inches beyond the edges of the trench.
 - b. Install steel plate bridging to operate with minimum noise.
 - c. Shore the trench to support the bridging and traffic loads.
 - d. Secure bridging against displacement by using adjustable cleats, shims, or other devices.
2. Install steel plate bridging and shoring using Method 2:

- a. Method 2 (For Speeds 45 mph or Less): Attach approach plate(s) and ending plate (if longitudinal placement) to the roadway by a minimum of two dowels predrilled into the corners of the plate and drilled 2 inches into the pavement. Butt subsequent plates to each other. Compact fine graded asphalt concrete to form ramps, maximum slope 8.5% with a minimum 12-inch taper to cover all edges of the steel plates. When steel plates are removed, backfill the dowel holes in the pavement with either graded fines of asphalt concrete mix or concrete slurry.
3. Maintain the steel plates and shoring.
4. The following table shows the required minimal thickness of steel plate bridging required for a given trench width:

Trench Width (feet)	Minimum Plate Thickness (inches)
1	1/2
1 1/2	3/4
2	7/8
3	1
4	1 1/4

5. For spans greater than 4 feet, prepare a structural design by a registered civil engineer and submit to the Owner's Representative for review.
6. Design steel plate bridging for HS20-44 truck loading per Caltrans Bridge Design Specifications Manual. Maintain on the steel plate a nonskid surface having a minimum coefficient of friction equivalent to 0.35 as determined by California Test Method No. 342. The Contractor may use standard steel plate with known coefficient of friction equal or exceeding 0.35.

G. Vehicular Traffic Control

1. Accomplish construction in phases by detouring traffic from its normal patterns. Restore traffic to normal patterns in each phase before proceeding to the next phase.
2. Transition traffic lane transitions from permanent lanes to construction zone patterns in accordance with the requirements for the normal posted speed limit and as shown in the drawings.
3. Unless otherwise shown in the drawings or allowed by the City of Seaside within whose jurisdiction the work is being performed, limit construction activities to 7 a.m. to 5 p.m. Monday through Friday. Return roadways and sidewalks to unrestricted vehicle and pedestrian usage when construction is not underway.
4. During the peak traffic volume hours of the day, from 6:00 a.m. to 8:30 a.m. and 3:30 p.m. to 7:00 p.m. on weekdays only, limit construction activities within the construction zone to those which will not impact the free movement of vehicular traffic in its detoured pattern. Construction equipment or trucks shall not use or travel adjacent to traffic lanes during these time periods. Truck operations in and out of construction and staging areas shall be controlled by flagmen at all times.
5. Construction in (or near) Intersections:

- a. Lightfighter Drive and 2nd Avenue.

H. Pedestrian Traffic Control

1. Maintain and delineate a minimum of one 4-foot-wide pedestrian walkway along each public street at all times during construction. Maintain existing pedestrian accesses at intersections at all times. When existing crosswalks are blocked by construction activity, install signs directing pedestrian traffic to the nearest alternative crosswalk.
2. Erect a fence or provide other means of securement to preclude unauthorized entry to any excavation during all nonworking hours on a 24-hour basis including weekends and holidays. Said fence shall be a minimum of 7 feet high around the entire excavation, consisting of a minimum 9-gauge chain-link type fence fabric and shall be sturdy enough to prohibit toppling by children or adults. There shall be no openings under the wire large enough for any child to crawl through. Lock any gates if no adult is in attendance. Place warning signs spaced on 50-foot centers on the outside of the fence with the statement "DEEP HOLE DANGER."

I. Access to Adjacent Properties

1. Maintain reasonable access from public streets to adjacent properties at all times during construction. Prior to restricting normal access from public streets to adjacent properties, notify each property owner or responsible person, informing him of the nature of the access restriction, the approximate duration of the restriction, and the best alternate access route for that particular property.

J. Permanent Traffic Control Devices

1. Existing permanent traffic control signs, barricades, and devices shall remain in effective operation unless a substitute operation is arranged for and approved as a portion of vehicular traffic control above. Traffic signal modification and restoration work shall be in accordance with Section 86 of the State Specifications.
2. Maintain daily liaison with the Owner's Representative or the City of Seaside in regards to traffic diversion at signalized intersections.
3. Contact the Owner's Representative or the City of Seaside 48 hours prior to work affecting traffic signal phasing or vehicular detection loops.
4. Provide a certified signal contractor to be responsible for all traffic modifications required to implement the traffic control plans and as directed by City of Seaside including installing new traffic signal heads, realigning signal heads, temporary poles and wiring, all other hardware modifications and controller modifications.
5. Completely restore traffic signals affected by the construction to its original operation immediately upon completion of the work requiring the signal modification.
6. Traffic Control Detection Loops: Completely replace traffic control detection loops that are cut, removed, or otherwise disturbed for construction to the original position or as directed by the Owner's Representative or City of Seaside immediately after the specific stage affecting loops is completed. Check new loops for continuity from the traffic signal cabinet to assure splicing and signal operation is correct.
7. Replace traffic signal conduits damaged to the nearest pull box, including new wire, back to the terminal, and/or back to the signal controller to the satisfaction of the owning agency

before proceeding to the next construction stage. Splicing is not permitted. Report all such damage immediately to the Owner's Representative or City of Seaside.

8. Restriping of Streets: Permanent restriping shall be in accordance with the requirements of the agencies having jurisdiction. Place and remove temporary striping required for traffic control during construction by sandblasting. Temporary striping includes any striping required on any pavement replaced prior to the final surface course. Replace any damaged or obliterated raised pavement markers in accordance with the standards of the agency having jurisdiction.

END OF SECTION

**SECTION 015713
TEMPORARY EROSION AND SEDIMENT CONTROL**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Prevention of erosion due to construction activities.
- B. Prevention of sedimentation of waterways, open drainage ways, and storm and sanitary sewers due to construction activities.
- C. Restoration of areas eroded due to insufficient preventive measures.
- D. Performance bond.
- E. Compensation of Owner for fines levied by authorities having jurisdiction due to non-compliance by Contractor.

1.02 RELATED REQUIREMENTS

- A. Section 311000 - Site Clearing: Limits on clearing; disposition of vegetative clearing debris.
- B. Section 312200 - Grading: Temporary and permanent grade changes for erosion control.

1.03 REFERENCE STANDARDS

- A. ASTM D4355/D4355M - Standard Test Method for Deterioration of Geotextiles by Exposure to Light, Moisture, and Heat in a Xenon Arc-Type Apparatus 2021.
- B. ASTM D4491/D4491M - Standard Test Methods for Water Permeability of Geotextiles by Permittivity 2021.
- C. ASTM D4533/D4533M - Standard Test Method for Trapezoid Tearing Strength of Geotextiles 2015.
- D. ASTM D4632/D4632M - Standard Test Method for Grab Breaking Load and Elongation of Geotextiles 2015a.
- E. ASTM D4751 - Standard Test Methods for Determining Apparent Opening Size of a Geotextile 2021.
- F. ASTM D4873/D4873M - Standard Guide for Identification, Storage, and Handling of Geosynthetic Rolls and Samples 2017 (Reapproved 2021).
- G. EPA (NPDES) - National Pollutant Discharge Elimination System (NPDES), Construction General Permit Current Edition.

1.04 PERFORMANCE REQUIREMENTS

- A. Comply with requirements of EPA (NPDES) for erosion and sedimentation control, as specified by the NPDES, for Phases I and II, and in compliance with requirements of Construction General Permit (CGP), whether the project is required by law to comply or not.
- B. Also comply with all more stringent requirements of State of California Erosion and Sedimentation Control Manual.
- C. Develop and follow an Erosion and Sedimentation Prevention Plan and submit periodic inspection reports.
- D. Do not begin clearing, grading, or other work involving disturbance of ground surface cover until applicable permits have been obtained; furnish all documentation required to obtain applicable permits.
 - 1. Obtain and pay for permits and provide security required by authority having jurisdiction.
 - 2. Owner will withhold payment to Contractor equivalent to all fines resulting from non-compliance with applicable regulations.
- E. Provide to Owner a Performance Bond covering erosion and sedimentation preventive measures only, in an amount equal to 100 percent of the cost of erosion and sedimentation control work.

- F. Timing: Put preventive measures in place as soon as possible after disturbance of surface cover and before precipitation occurs.
- G. Storm Water Runoff: Control increased storm water runoff due to disturbance of surface cover due to construction activities for this project.
 - 1. Prevent runoff into storm and sanitary sewer systems, including open drainage channels, in excess of actual capacity or amount allowed by authorities having jurisdiction, whichever is less.
 - 2. Anticipate runoff volume due to the most extreme short term and 24-hour rainfall events that might occur in 25 years.
- H. Erosion On Site: Minimize wind, water, and vehicular erosion of soil on project site due to construction activities for this project.
 - 1. Control movement of sediment and soil from temporary stockpiles of soil.
 - 2. Prevent development of ruts due to equipment and vehicular traffic.
 - 3. If erosion occurs due to non-compliance with these requirements, restore eroded areas at no cost to Owner.
- I. Erosion Off Site: Prevent erosion of soil and deposition of sediment on other properties caused by water leaving the project site due to construction activities for this project.
 - 1. Prevent windblown soil from leaving the project site.
 - 2. Prevent tracking of mud onto public roads outside site.
 - 3. Prevent mud and sediment from flowing onto sidewalks and pavements.
 - 4. If erosion occurs due to non-compliance with these requirements, restore eroded areas at no cost to Owner.
- J. Sedimentation of Waterways On Site: Prevent sedimentation of waterways on the project site, including rivers, streams, lakes, ponds, open drainage ways, storm sewers, and sanitary sewers.
 - 1. If sedimentation occurs, install or correct preventive measures immediately at no cost to Owner; remove deposited sediments; comply with requirements of authorities having jurisdiction.
 - 2. If sediment basins are used as temporary preventive measures, pump dry and remove deposited sediment after each storm.
- K. Sedimentation of Waterways Off Site: Prevent sedimentation of waterways off the project site, including rivers, streams, lakes, ponds, open drainage ways, storm sewers, and sanitary sewers.
 - 1. If sedimentation occurs, install or correct preventive measures immediately at no cost to Owner; remove deposited sediments; comply with requirements of authorities having jurisdiction.
- L. Open Water: Prevent standing water that could become stagnant.
- M. Maintenance: Maintain temporary preventive measures until permanent measures have been established.

1.05 SUBMITTALS

- A. Erosion and Sedimentation Control Plan:
 - 1. Submit not less than 30 days prior to anticipated start of clearing, grading, or other work involving disturbance of ground surface cover.
 - 2. Include:
 - a. Site plan identifying soils and vegetation, existing erosion problems, and areas vulnerable to erosion due to topography, soils, vegetation, or drainage.
 - b. Site plan showing grading; new improvements; temporary roads, traffic accesses, and other temporary construction; and proposed preventive measures.
 - c. Where extensive areas of soil will be disturbed, include storm water flow and volume calculations, soil loss predictions, and proposed preventive measures.
 - d. Schedule of temporary preventive measures, in relation to ground disturbing activities.
 - e. Other information required by law.

- f. Format required by law is acceptable, provided any additional information specified is also included.
- 3. Obtain the approval of the Plan by authorities having jurisdiction.
- 4. Obtain the approval of the Plan by Owner.
- B. Certificate: Mill certificate for silt fence fabric attesting that fabric and factory seams comply with specified requirements, signed by legally authorized official of manufacturer; indicate actual minimum average roll values; identify fabric by roll identification numbers.
- C. Inspection Reports: Submit report of each inspection; identify each preventive measure, indicate condition, and specify maintenance or repair required and accomplished.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Silt Fence Fabric: Polypropylene geotextile resistant to common soil chemicals, mildew, and insects; non-biodegradable; in longest lengths possible; fabric including seams with the following minimum average roll lengths:
 - 1. Average Opening Size: 30 U.S. Std. Sieve, maximum, when tested in accordance with ASTM D4751.
 - 2. Permittivity: 0.05 sec^{-1} , minimum, when tested in accordance with ASTM D4491/D4491M.
 - 3. Ultraviolet Resistance: Retaining at least 70 percent of tensile strength, when tested in accordance with ASTM D4355/D4355M after 500 hours exposure.
 - 4. Tensile Strength: 100 pounds-force, minimum, in cross-machine direction; 124 pounds-force, minimum, in machine direction; when tested in accordance with ASTM D4632/D4632M.
 - 5. Elongation: 15 to 30 percent, when tested in accordance with ASTM D4632/D4632M.
 - 6. Tear Strength: 55 pounds-force, minimum, when tested in accordance with ASTM D4533/D4533M.
 - 7. Color: Manufacturer's standard, with embedment and fastener lines preprinted.
- B. Silt Fence Posts: One of the following, minimum 5 feet long:
 - 1. Steel U- or T-section, with minimum mass of 1.33 pound per linear foot.
 - 2. Softwood, 4 by 4 inches in cross section.
 - 3. Hardwood, 2 by 2 inches in cross section.
- C. Gravel

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine site and identify existing features that contribute to erosion resistance; maintain such existing features to greatest extent possible.

3.02 PREPARATION

- A. Schedule work so that soil surfaces are left exposed for the minimum amount of time.

3.03 SCOPE OF PREVENTIVE MEASURES

- A. In all cases, if permanent erosion resistant measures have been installed temporary preventive measures are not required.
- B. Construction Entrances: Traffic-bearing aggregate surface.
 - 1. Width: As required; 20 feet, minimum.
 - 2. Length: 50 feet, minimum.
 - 3. Provide at each construction entrance from public right-of-way.
 - 4. Where necessary to prevent tracking of mud onto right-of-way, provide wheel washing area out of direct traffic lane, with drain into sediment trap or basin.

- C. Linear Sediment Barriers: Made of silt fences.
 - 1. Provide linear sediment barriers:
 - a. Along downhill perimeter edge of disturbed areas, including soil stockpiles.
 - 2. Space sediment barriers with the following maximum slope length upslope from barrier:
 - a. Slope of Less Than 2 Percent: 100 feet.
 - b. Slope Between 2 and 5 Percent: 75 feet.
 - c. Slope Between 5 and 10 Percent: 50 feet.
 - d. Slope Between 10 and 20 Percent: 25 feet.
 - e. Slope Over 20 Percent: 15 feet.
- D. Storm Drain Curb Inlet Sediment Trap: Protect each curb inlet using one of the following measures:
 - 1. Filter fabric wrapped around hollow concrete blocks blocking entire inlet face area; use one piece of fabric wrapped at least 1-1/2 times around concrete blocks and secured to prevent dislodging; orient cores of blocks so runoff passes into inlet.
 - 2. Straw bale row blocking entire inlet face area; anchor into pavement.
- E. Storm Drain Drop Inlet Sediment Traps: As detailed on drawings.
- F. Temporary Splash Pads: Stone aggregate over filter fabric; size to suit application; provide at downspout outlets and storm water outlets.
- G. Soil Stockpiles: Protect using one of the following measures:
 - 1. Cover with polyethylene film, secured by placing soil on outer edges.
 - 2. Cover with mulch at least 4 inches thickness of pine needles, sawdust, bark, wood chips, or shredded leaves, or 6 inches of straw or hay.
- H. Temporary Seeding: Use where temporary vegetated cover is required.

3.04 INSTALLATION

- A. Traffic-Bearing Aggregate Surface:
 - 1. Excavate minimum of 6 inches.
 - 2. Place geotextile fabric full width and length, with minimum 12 inch overlap at joints.
 - 3. Place and compact at least 6 inches of 1 1/2 to 3 1/2 inch diameter stone.
- B. Silt Fences:
 - 1. Store and handle fabric in accordance with ASTM D4873/D4873M.
 - 2. Where slope gradient is less than 3:1 or barriers will be in place less than 6 months, use nominal 16 inch high barriers with minimum 36 inch long posts spaced at 6 feet maximum, with fabric embedded at least 4 inches in ground.
 - 3. Where slope gradient is steeper than 3:1 or barriers will be in place over 6 months, use nominal 28 inch high barriers, minimum 48 inch long posts spaced at 6 feet maximum, with fabric embedded at least 6 inches in ground.
 - 4. Where slope gradient is steeper than 3:1 and vertical height of slope between barriers is more than 20 feet, use nominal 32 inch high barriers with woven wire reinforcement and steel posts spaced at 4 feet maximum, with fabric embedded at least 6 inches in ground.
 - 5. Install with top of fabric at nominal height and embedment as specified.
 - 6. Do not splice fabric width; minimize splices in fabric length; splice at post only, overlapping at least 18 inches, with extra post.
 - 7. Fasten fabric to wood posts using one of the following:
 - a. Four nails per post with 3/4 inch diameter flat or button head, 1 inch long, and 14 gauge, 0.083 inch shank diameter.
 - b. Five staples per post with at least 17 gauge, 0.0453 inch wire, 3/4 inch crown width and 1/2 inch long legs.
 - 8. Fasten fabric to steel posts using wire, nylon cord, or integral pockets.
 - 9. Wherever runoff will flow around end of barrier or over the top, provide temporary splash pad or other outlet protection; at such outlets in the run of the barrier, make barrier not more than 12 inches high with post spacing not more than 4 feet.

3.05 MAINTENANCE

- A. Inspect preventive measures weekly, within 24 hours after the end of any storm that produces 0.5 inches or more rainfall at the project site, and daily during prolonged rainfall.
- B. Repair deficiencies immediately.
- C. Silt Fences:
 - 1. Promptly replace fabric that deteriorates unless need for fence has passed.
 - 2. Remove silt deposits that exceed one-third of the height of the fence.
 - 3. Repair fences that are undercut by runoff or otherwise damaged, whether by runoff or other causes.
- D. Clean out temporary sediment control structures weekly and relocate soil on site.
- E. Place sediment in appropriate locations on site; do not remove from site.

3.06 CLEAN UP

- A. Where removal of temporary measures would leave exposed soil, shape surface to an acceptable grade and finish to match adjacent ground surfaces.

END OF SECTION 015713

**SECTION 017419
CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL**

PART 1 GENERAL

1.01 WASTE MANAGEMENT REQUIREMENTS

- A. Owner requires that this project generate the least amount of trash and waste possible.
- B. Employ processes that ensure the generation of as little waste as possible due to error, poor planning, breakage, mishandling, contamination, or other factors.
- C. Minimize trash/waste disposal in landfills; reuse, salvage, or recycle as much waste as economically feasible.
- D. Contractor shall submit Waste Disposal Reports; all landfill disposal, recycling, salvage, and reuse must be reported regardless of to whom the cost or savings accrues; use the same units of measure on all reports.
- E. Methods of trash/waste disposal that are not acceptable are:
 - 1. Burning on the project site.
 - 2. Burying on the project site.
 - 3. Dumping or burying on other property, public or private.
 - 4. Other illegal dumping or burying.
 - 5. Incineration, either on- or off-site.
- F. Regulatory Requirements: Contractor is responsible for knowing and complying with regulatory requirements, including but not limited to Federal, state and local requirements, pertaining to legal disposal of all construction and demolition waste materials.

1.02 RELATED REQUIREMENTS

- A. Section 013000 - Administrative Requirements: Additional requirements for project meetings, reports, submittal procedures, and project documentation.
- B. Section 015000 - Temporary Facilities and Controls: Additional requirements related to trash/waste collection and removal facilities and services.
- C. Section 028213 – Asbestos Abatement
- D. Section 028333 – Removal and Disposal of Material Containing Lead
- E. Section 028416 – Hazardous Materials Removal and Disposal
- F. Section 311000 - Site Clearing: Handling and disposal of land clearing debris.

1.03 DEFINITIONS

- A. Clean: Untreated and unpainted; not contaminated with oils, solvents, caulk, or the like.
- B. Construction and Demolition Waste: Solid wastes typically including building materials, packaging, trash, debris, and rubble resulting from construction, remodeling, repair and demolition operations.
- C. Hazardous: Exhibiting the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity or reactivity.
- D. Nonhazardous: Exhibiting none of the characteristics of hazardous substances, i.e., ignitibility, corrosivity, toxicity, or reactivity.
- E. Nontoxic: Neither immediately poisonous to humans nor poisonous after a long period of exposure.
- F. Recyclable: The ability of a product or material to be recovered at the end of its life cycle and remanufactured into a new product for reuse by others.
- G. Recycle: To remove a waste material from the project site to another site for remanufacture into a new product for reuse by others.
- H. Recycling: The process of sorting, cleansing, treating and reconstituting solid waste and other discarded materials for the purpose of using the altered form. Recycling does not include burning, incinerating, or thermally destroying waste.

- I. Return: To give back reusable items or unused products to vendors for credit.
- J. Reuse: To reuse a construction waste material in some manner on the project site.
- K. Salvage: To remove a waste material from the project site to another site for resale or reuse by others.
- L. Sediment: Soil and other debris that has been eroded and transported by storm or well production run-off water.
- M. Source Separation: The act of keeping different types of waste materials separate beginning from the first time they become waste.
- N. Toxic: Poisonous to humans either immediately or after a long period of exposure.
- O. Trash: Any product or material unable to be reused, returned, recycled, or salvaged.
- P. Waste: Extra material or material that has reached the end of its useful life in its intended use. Waste includes salvageable, returnable, recyclable, and reusable material.

1.04 SUBMITTALS

- A. Waste Disposal Reports: Submit with details of quantities of trash and waste, means of disposal or reuse, and costs; show both totals to date and since last report.
 - 1. Submit updated Report with each Application for Progress Payment; failure to submit Report will delay payment.
 - 2. Submit Report on a form acceptable to Owner.
 - 3. Landfill Disposal: Include the following information:
 - a. Identification of material.
 - b. Amount, in tons or cubic yards, of trash/waste material from the project disposed of in landfills.
 - c. State the identity of landfills, total amount of tipping fees paid to landfill, and total disposal cost.
 - d. Include manifests, weight tickets, receipts, and invoices as evidence of quantity and cost.
 - 4. Other Disposal Methods: Include information similar to that described above, as appropriate to disposal method.

PART 3 EXECUTION

2.01 WASTE MANAGEMENT PROCEDURES

- A. See Section 015000 for additional requirements related to trash/waste collection and removal facilities and services.

2.02 WASTE MANAGEMENT PLAN IMPLEMENTATION

- A. Manager: Designate an on-site person or persons responsible for instructing workers and overseeing and documenting results of the Waste Management Plan.
- B. Communication: Distribute copies of the Waste Management Plan to job site foreman, each subcontractor, Owner, and Engineer.
- C. Instruction: Provide on-site instruction of appropriate separation, handling, and recycling, salvage, reuse, and return methods to be used by all parties at the appropriate stages of the project.
- D. Meetings: Discuss trash/waste management goals and issues at project meetings.
 - 1. Prebid meeting.
 - 2. Preconstruction meeting.
 - 3. Regular job-site meetings.
- E. Facilities: Provide specific facilities for separation and storage of materials for recycling and trash disposal, for use by all contractors.
 - 1. Provide containers as required.
 - 2. Provide adequate space for pick-up and delivery and convenience to subcontractors.
 - 3. Keep recycling and trash/waste bin areas neat and clean and clearly marked in order to avoid contamination of materials.

- F. Hazardous Wastes: Separate, store, and dispose of hazardous wastes according to applicable regulations.
- G. Recycling: Separate, store, protect, and handle at the site identified recyclable waste products in order to prevent contamination of materials and to maximize recyclability of identified materials. Arrange for timely pickups from the site or deliveries to recycling facility in order to prevent contamination of recyclable materials.

END OF SECTION 017419

**SECTION 024100
DEMOLITION**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Building demolition.
- B. Abandonment and removal of existing utilities and utility structures.

1.02 RELATED REQUIREMENTS

- A. Section 011000 - Summary: Limitations on Contractor's use of site and premises.
- B. Section 011000 - Summary: Sequencing and staging requirements.
- C. Section 011000 - Summary: Description of items to be salvaged or removed for re-use by Contractor.
- D. Section 015000 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- E. Section 015713 - Temporary Erosion and Sediment Control.
- F. Section 017419 - Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.
- G. Section 028213 – Asbestos Abatement
- H. Section 028333 – Removal and Disposal of Material Containing Lead
- I. Section 028416 – Hazardous Materials Removal and Disposal
- J. Section 311000 - Site Clearing: Vegetation and existing debris removal.
- K. Section 312200 - Grading: Fill material for filling holes, pits, and excavations generated as a result of removal operations.
- L. Section 312323 - Fill: Filling holes, pits, and excavations generated as a result of removal operations.

1.03 REFERENCE STANDARDS

- A. 29 CFR 1926 - Safety and Health Regulations for Construction Current Edition.
- B. NFPA 241 - Standard for Safeguarding Construction, Alteration, and Demolition Operations 2019.

1.04 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Site Plan: Showing:
 - 1. Vegetation to be protected.
 - 2. Areas for temporary construction and field offices.
 - 3. Areas for temporary and permanent placement of removed materials.
- C. Demolition Plan: Submit demolition plan as specified by OSHA and local authorities.
 - 1. Indicate extent of demolition, removal sequence, bracing and shoring, and location and construction of barricades and fences.
 - 2. Identify demolition firm and submit qualifications.
 - 3. Include a summary of safety procedures.
- D. Project Record Documents: Accurately record actual locations of capped and active utilities and subsurface construction.

1.05 QUALITY ASSURANCE

- A. Demolition Firm Qualifications: Company specializing in the type of work required.
 - 1. Minimum of 5 years of documented experience.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Fill Material: As specified in Section 312323 - Fill.

PART 3 EXECUTION

3.01 SCOPE

- A. Remove asbestos, lead-based paint, lead-containing materials, universal waste, suspect polychlorinated biphenyls (PCBs), and other hazardous materials.
- B. Remove the entire building designated as the Visitor Center.
- C. Remove all paving and curbs within site boundaries.
- D. Remove foundation walls and footings to whatever depth is required to perform the work, or a minimum of 2 feet below finished grade, whichever is greater.
- E. Remove concrete slabs on grade within site boundaries.
- F. Remove manholes and manhole covers, curb inlets and catch basins, unless otherwise noted on the plans (i.e. protect-in-place utilities).
- G. Remove fences and gates.
- H. Remove creosote-treated wood utility poles.
- I. Remove other items indicated, for salvage, relocation, and recycling.

3.02 GENERAL PROCEDURES AND PROJECT CONDITIONS

- A. Comply with other requirements specified in Section 017000.
- B. Comply with applicable codes and regulations for demolition operations and safety of adjacent structures and the public.
 - 1. Obtain required permits.
 - 2. Comply with applicable requirements of NFPA 241.
 - 3. Use of explosives is not permitted.
 - 4. Take precautions to prevent catastrophic or uncontrolled collapse of structures to be removed; do not allow worker or public access within range of potential collapse of unstable structures.
 - 5. Provide, erect, and maintain temporary barriers and security devices.
 - 6. Use physical barriers to prevent access to areas that could be hazardous to workers or the public.
 - 7. Conduct operations to minimize effects on and interference with adjacent structures and occupants.
 - 8. Do not close or obstruct roadways or sidewalks without permit.
 - 9. Conduct operations to minimize obstruction of public and private entrances and exits; do not obstruct required exits at any time; protect persons using entrances and exits from removal operations.
 - 10. Obtain written permission from owners of adjacent properties when demolition equipment will traverse, infringe upon or limit access to their property.
- C. Do not begin removal until receipt of notification to proceed from Owner.
- D. Protect existing structures and other elements that are not to be removed.
 - 1. Provide bracing and shoring.
 - 2. Prevent movement or settlement of adjacent structures.
 - 3. Stop work immediately if adjacent structures appear to be in danger.
- E. Minimize production of dust due to demolition operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.
- F. Perform demolition in a manner that maximizes salvage and recycling of materials.
 - 1. Comply with requirements of Section 017419 - Waste Management.
 - 2. Dismantle existing construction and separate materials.
 - 3. Set aside reusable, recyclable, and salvageable materials; store and deliver to collection point or point of reuse.
- G. Partial Removal of Paving and Curbs: Neatly saw cut at right angle to surface.

3.03 EXISTING UTILITIES

- A. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from authority having jurisdiction.
- D. Do not close, shut off, or disrupt existing life safety systems that are in use without at least 7 days prior written notification to Owner.
- E. Do not close, shut off, or disrupt existing utility branches or take-offs that are in use without at least 3 days prior written notification to Owner.
- F. Locate and mark utilities to remain; mark using highly visible tags or flags, with identification of utility type; protect from damage due to subsequent construction, using substantial barricades if necessary.
- G. Remove exposed piping, valves, meters, equipment, supports, and foundations of disconnected and abandoned utilities.

3.04 DEBRIS AND WASTE REMOVAL

- A. Remove debris, junk, and trash from site.
- B. Remove from site all materials not to be reused on site; comply with requirements of Section 017419 - Waste Management.
- C. Leave site in clean condition, ready for subsequent work.
- D. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION 024100

**SECTION 028213
ASBESTOS ABATEMENT**

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Asbestos abatement.
- B. Related Sections:
 - 1. 02 83 33 Removal and Disposal of Material Containing Lead.
 - 2. 02 84 16 Hazardous Materials Removal and Disposal.

1.02 SCOPE OF WORK

- A. The work includes all removal, storage, transportation, and disposal of all asbestos-containing materials (ACM), asbestos-containing construction materials (ACCM), and/or asbestos contaminated building materials, articles, and items as specified, shown or reasonably implied in the contract documents or discovered during work activities.
- B. For a listing of asbestos identified at the Project Site refer to Vista Environmental Consulting's report titled "Hazardous Materials Survey Report, Former Fort Ord - Areas 1, Seaside, California" dated January 14, 2022 and Appendix A Tables. Class II/Category I & II Non-friable materials are present in the Area 1.
- C. The contractor is to review all contract documents and reports, and field verify quantities and locations of asbestos related work. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Environmental Consultant, prior to bidding.
- D. The contractor shall make sure that asbestos does not contaminate areas outside the regulated work areas. These areas include, but are not limited to, the interior of the building or the environment outside the building. If such contamination occurs, the contractor shall incur all costs associated with the decontamination of the areas. These costs include, but are not limited to, the Owner's Environmental Consultant fees and analytical fees deemed necessary by the Owner.
- E. If non-manual methods of asbestos removal are used the contractor shall guarantee that the water and/or blast media does not penetrate the building envelope. The building envelope includes, but is not limited to, the perimeter walls.
- F. Schedule of work shall be an 8-hour shift, Monday to Friday during normal working hours (0700 to 1900) unless a 48 hour notice is given in writing to the Owner and Environmental Consultant 48 hours in advance and is approved by the Owner.
- G. It is not the responsibility of the Owner's Environmental Consultant to supervise the Contractor; nor to direct the Contractor's work effort; nor to assume the management of, or responsibility for, the Contractor's health and/or safety practices, nor its waste management, nor its regulatory compliance. At all times, the Contractor shall be solely responsible for the quality and execution of all phases and aspects of the work.

1.03 REFERENCES

- A. The following references are not an exhaustive list of all applicable federal, state, and local regulations, standards, laws, ordinances, and codes applicable to asbestos abatement work. The contractor shall perform all asbestos related work in accordance with the most recent edition of all applicable federal, state, and local regulations, standards, laws, ordinances, and codes and, where conflicts occur, the most stringent requirements shall be adhered to.
 - 1. Code of Federal Regulations (CFR);
 - a. 29 CFR 1910.12 - Construction Work
 - b. 29 CFR 1910.134 – Respiratory Protection
 - c. 29 CFR 1910.145 - Specifications for Accident Prevention Signs and Tags
 - d. 29 CFR 1910.1001 - Asbestos – General Industry
 - e. 29 CFR 1910.1020 - Access to Employee Exposure and Medical Records

- f. 29 CFR 1926.1101 - Asbestos – Construction Industry
 - g. 29 CFR 1910.1200 - Hazard Communication
 - h. 40 CFR 61 - Subpart A and Subpart M, USEPA, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
 - i. 40 CFR Part 763 - Subpart E, Asbestos Containing Materials in Schools (AHERA)
- 2. California Code of Regulations (CCR);
 - a. Title 8, Chapter 3.2, Subchapter 2, Article 2.5 - Registration Asbestos-Related Work Sections 341.6 through 341.14
 - b. Title 8, Section 1500-1938 – Construction Safety Orders
 - c. Title 8, Section 1529 - Asbestos in the Construction Industry
 - d. Title 8, Section 3204 - Access to Employee Exposure and Medical Records
 - e. Title 8, Section 5144 - Respiratory Protective Equipment
 - f. Title 8, Section 5194 - Hazard Communication
 - g. Title 8, Section 5208 - General Industry Safety Orders, Asbestos Regulations
 - h. Title 17, Section 93105 - Asbestos Airborne Toxic Control Measure for Construction, Grading, Quarrying, and Surface Mining Operations
 - i. Title 22, Division 4.5 – Environmental Health Standards for Management of Hazardous Waste
- 3. National Institute for Occupation Safety and Health (NIOSH);
 - a. Manual of Analytical Methods, 4th Ed., Vol. 1 - Method 7400 Asbestos and other Fibers by PCM
- 4. Monterey Bay Air Resources District (MBARD)
 - a. Rule 424, National Emission Standards for Hazardous Air Pollutants (NESHAPS)

1.04 DEFINITIONS

- A. Definitions specific to Work of this Section:
 - 1. Abatement: Procedures to control fiber release from asbestos containing building materials. Includes removal, repair, encapsulation, and enclosure.
 - 2. Air Filtration Equipment: A portable air recirculation system equipped with HEPA filtration and used to cleanse air of particulate matter within an abatement area. Air filtration equipment is essentially the same as differential pressure equipment except it recirculates air instead of exhausting it.
 - 3. Airlock: A system for permitting ingress and egress with minimum air movement between a contaminated area and an uncontaminated area.
 - 4. Air Monitoring: The process of measuring the fiber content of a specific volume of air in a stated period of time.
 - 5. Air Sampling Professional: The professional contracted or employed to conduct air monitoring and analysis schemes. This individual is also responsible for recognition of technical deficiencies in worker protection equipment and procedures during both planning and on-site phases of an abatement project.
 - 6. Amended Water: Water to which a surfactant has been added.
 - 7. Area Monitoring: Sampling of asbestos fiber concentrations within the asbestos Work Area and outside the asbestos Work Area that is representative of the airborne concentrations of asbestos fibers, which may reach the breathing zone.
 - 8. Asbestos: The term asbestos includes chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite.
 - 9. Asbestos-Containing Construction Material (ACCM): Any manufactured construction material that contains more than one tenth of one (>0.1%) percent asbestos by weight.
 - 10. Asbestos Fibers: This expression refers to asbestos fibers longer than 5 micrometers with an aspect ratio of 3:1 or larger under PCM analytical procedures.
 - 11. Asbestos Structure: The type of asbestos morphology that is counted during an analysis. The four types of asbestos structures are: Fiber, Bundle, Matrix, and Cluster.
 - 12. Authorized Visitor: The Owner, Owner's Environmental Consultant, or a person of any regulatory or other agency having jurisdiction over the project.
 - 13. Category I Non-Friable Asbestos Containing Material: Asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.

14. Category II Non-Friable Asbestos Containing Material: Asbestos-containing material, excluding Category I non-friable asbestos-containing material, that, when dry, and in its present form, cannot be crumbled, pulverized, or reduced to powder by hand pressure.
15. Class I Asbestos Work: Activities involving the removal of thermal system insulation and surfacing asbestos-containing materials.
16. Class II Asbestos Work: Activities involving the removal of ACM, which is not thermal system insulation, or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.
17. Clean Room: An uncontaminated area or room, which is a part of the Worker decontamination enclosure with provisions for storage of Workers' street clothes and personal protective equipment.
18. Critical Barrier: A temporary air tight and impermeable barrier that separates an asbestos work area from an adjacent potentially occupied area.
19. Decontamination Enclosure System: A series of connected rooms with airlocks between any two adjacent rooms for the decontamination of Workers, materials, and equipment. A decontamination enclosure system always contains at least one chamber.
20. Differential Pressure Equipment: A portable local exhaust system equipped with HEPA filtration and capable of maintaining constant, low velocity airflow into contaminated areas from adjacent uncontaminated areas.
21. Encapsulant (sealant): A liquid material which can be applied to asbestos containing material and which controls the possible release of asbestos fiber from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant).
22. Encapsulation: Procedures necessary to apply an encapsulant to asbestos containing building materials to control the possible release of asbestos fibers into the ambient air.
23. Enclosure: Procedures necessary to enclose completely asbestos containing material behind airtight, impermeable, permanent barriers.
24. Equipment Room: A contaminated area or room, which is part of the Worker Decontamination Enclosure with provisions for storage of contaminated clothing and equipment.
25. Equipment Decontamination Enclosure: That portion of a decontamination enclosure system designed for controlled transfer of materials and equipment typically consisting of an equipment room, a washroom, and a holding area.
26. Excursion Limit: A limit of 1.0 f/cc over a 30-minute sampling period to which employees may not be exposed in excess of.
27. Friable Asbestos-Containing Material: Material that contains more than one percent asbestos by weight and that can be crumbled, pulverized, or reduced to powder by hand pressure when dry.
28. Fixed Louver: A non-operable type louver equipped with a HEPA filter and mounted in the rigid doors or walls of a decontamination enclosure system.
29. Fixed Object: A unit of equipment or furniture in the Work Area, which cannot be removed from the Work Area.
30. HEPA Filter: A filter capable of trapping and retaining at least 99.97 percent of all mono- dispersed particles of 0.3 micrometers in diameter.
31. HEPA Vacuum Equipment: Vacuuming equipment with a HEPA filter system.
32. Holding Area: A chamber in the equipment decontamination enclosure located between the washroom and an uncontaminated area. The holding area includes an airlock.
33. Movable Object: A unit of equipment or furniture in the Work Area, which can be removed from the Work Area.

34. Naturally-Occurring Asbestos - Asbestos that has not been processed in an asbestos mill.
35. Non-Friable Asbestos-Containing Material: Material that contains asbestos in which the fibers have been locked in by a bonding agent, coating, binder, or other material so that the asbestos is well bound and will not release fibers in excess of the asbestos control limit during any appropriate use, handling, demolition, storage, transportation, processing or disposal.
36. Owner: City of Seaside
37. Permissible Exposure Limit: An exposure of airborne concentrations of asbestos fibers in excess of 0.10 fibers per cubic centimeter of air as calculated over an 8-hour TWA.
38. Personnel Monitoring: Sampling of airborne asbestos fiber concentrations within the breathing zone of an asbestos worker.
39. Plasticize: To cover building surfaces with plastic sheeting as herein specified.
40. Regulated Asbestos-Containing Material (RACM): Friable asbestos-containing material; or, Category I nonfriable asbestos-containing material that has or will become friable, or subjected to sanding, drilling, grinding, cutting, or abrading; or Category II nonfriable asbestos-containing material that has a high probability of becoming crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or renovation.
41. Removal: Procedures necessary to remove asbestos-containing materials from designated areas and to dispose of these materials at an acceptable waste disposal site or treatment facility.
42. Rigid Doorway: A device to allow ingress or egress from one room to another while permitting minimal air movement between the rooms. A rigid doorway typically consists of a solid panel door, gasketed to prevent air leakage, attached by hinges to a rigid doorframe. A lockset is required to secure door in the closed position.
43. Shower Room: A room between the clean room and the equipment room in the worker decontamination enclosure with hot and cold running water adjustable by the Worker and suitably arranged for complete showering during decontamination. The shower room includes an airlock between contaminated and clean areas.
44. Surfactant: A chemical wetting agent added to water to improve penetration and improve control of airborne fiber concentration.
45. Three-dimensional: Any remaining material that can be removed from a substrate (concrete, wood etc.) by manual methods (razor scraper, chisel, etc.) and sent to a laboratory for analysis.
46. Washroom: A room between the Work Area and the holding area in the equipment decontamination enclosure system. The washroom comprises an airlock.
47. Wet Cleaning: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water, and by afterwards disposing of these cleaning tools as asbestos-contaminated waste.
48. Work Area: Designated rooms, spaces, or areas of the project in which asbestos abatement actions are to be undertaken or which may become contaminated as a result of such abatement actions. A contained Work Area is a Work Area, which has been sealed and equipped with a decontamination enclosure system. A non-contained Work Area is an isolated or controlled-access Work Area, which has not been sealed nor equipped with a decontamination enclosure system.
49. Worker Decontamination Enclosure System: That portion of a decontamination enclosure system designed for controlled passage of Workers, other personnel, and authorized visitors. It typically consists of a clean room, a shower room, and an equipment room.
50. Work Shift: A crew or crews at a contiguous contained or contiguous demarcated work site performing work items for a continuous period of time excluding work breaks.

1.05 SUBMITTALS

- A. Requirements are as set forth in Division 1 Specification Sections for items required to be submitted under this section.

- B. Product data shall include manufacturer's product data, specifications, samples and application instructions and other pertinent information as necessary.
- C. Quality Assurance Submittals: Refer to Article 1.06.
- D. Alternatives: Product substitution submittal shall be in accordance with the Division 0 and 1.
- E. A detailed site specific work plan based on scope of work. Include diagrams showing containment set-up, decontamination unit(s), location of negative air machine(s), and exhaust placement.
- F. Master schedule, showing phasing, number of shifts, time for air clearances, tear down and manpower loading to be utilized for the duration of the project.

1.06 QUALITY ASSURANCE

- A. Qualification: In order to meet with the Contract Time set forth in Division 1, submit the following documents.
 - 1. Registration: Submit copy of the registration for Asbestos-Related Work from the Division of Occupational Safety and Health in accordance with Title 8, Chapter 3.2, Subchapter 2, Article 2.5 of the California Code of Regulations. This qualification would not apply if the contractor's work includes the installation, repair, maintenance, or **nondestructive** removal of asbestos cement pipe used outside of buildings if the work operations do not result in employee exposures to asbestos in excess of 0.1 fibers per cubic centimeter of air (f/cc) as an 8-hour time-weighted average and the employees and supervisors involved in the work operations are trained and certified by an asbestos cement pipe training program which is approved by the Cal/OSHA.
 - 2. License: Submit copy of State of California, Contractors State License Board license with C-22 and ASB classifications.
 - 3. Personnel Training for Abatement Superintendent and Foreman: Submit copy of current certificates which verifies that each superintendent and foreman has successfully completed an EPA approved Asbestos Abatement Contractor/Supervisor Course.
 - 4. Personnel Training for Abatement Workers: Submit copy of the asbestos abatement employee training program, and current certificates which verify that each employee has successfully completed an EPA approved Asbestos Abatement Worker Course.
 - 5. Personnel Training for Asbestos Cement Pipe Training Program Workers and Supervisors: Submit copy of the asbestos employee training program, and current certificates which verify that each employee has successfully completed a Cal/OSHA approved Asbestos Cement Pipe Training Course.
 - 6. Personnel Training for all Non-Abatement Trades: Submit copy of the asbestos abatement employee training program, and current certificates which verify that each employee has successfully completed an Asbestos Awareness Course meeting the requirements of 8 CCR 1529 and 8 CCR 5208.
 - 7. Respirators: Submit a written standard operating procedure governing selection, fit-testing, and use of respirators in accordance with Title 8, Section 5144 and Section 1529. Also submit manufacturer's certification that the respirators to be used in this project comply with these regulatory requirements.
 - 8. Medical Examination: Submit proof that personnel who will be entering contaminated areas have had medical examinations, and furnish the results of said exam to the Owner and signed by the medical examiner. Comply with Title 8, Section 3204 for access to employee exposure and medical records, and make such records available to the Owner upon request.
 - a. Before exposure to airborne asbestos, provide each employee with a comprehensive medical exam meeting the requirements of 8 CCR 1529 and 8 CCR 5144.
 - b. Submit an employee roster to the Owner for each Work Shift.
 - 9. Transportation of Friable and Non-Friable Asbestos Containing Materials: Submit proof that the Contractor or subcontractor is a registered hazardous waste transporter with the State of California and Department of Toxic Substances Control.

10. Waste Sites: Submit for approval the name, class, address, EPA I.D. number and telephone number of hazardous and non-hazardous waste site(s) to be utilized for disposal.
 11. Waste Profiles: Submit all waste profiles.
 12. Copies of all transport manifests, trip tickets and disposal receipts for all waste materials removed from the work area within 48 hours of the transport, to the Owner or Owner's Environmental Consultant.
- B. Notifications, Communications and Postings: Subcontractor shall notify the Owner at the same time each notification is issued; properly identify each notification for the Owner.
1. Submit copies of notifications to all appropriate government agencies, including the following:
 - a. Division of Occupational Safety and Health - Occupational Carcinogen Control Unit: Notification shall be in accordance with Section 341.9 of Title 8 of the California Code of Regulations.
 - b. MBARD
 - c. Copies of government agency correspondence shall be included in the submittals.
 - d. Secure approval of local police and fire departments having jurisdiction of the proposed security and safety plans for the work prior to submittal to the Owner. Contact both departments for the requirements of the approval process.
 2. Safety Compliance: In addition to detailed requirements of this Specification, comply with laws, ordinances, rules, and regulations of federal, state, regional, and local authorities regarding handling, storing, transporting, and disposing of asbestos waste materials. Comply with applicable requirements of the current issue of 29 CFR 1910.1001, and 40 CFR 61, Subparts A, & M, 40 CFR 61.152, and Title 8, Section 1529. Submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting Work. Where requirements of this Specification and reference documents vary, the most stringent requirement shall apply.
 3. The Contractor shall have at least one copy each of 29 CFR 1910, Subpart I, 29 CFR.1910.1001; 40 CFR Part 61, Sub-parts A & M; and Title 8, Section 1529, at his office and also at the job site.
 4. Before the commencement of any Work at the site, post bilingual EPA and CAL/OSHA danger signs in and around the Work Area to comply with EPA and OSHA regulations.
- C. Field Air Sampling: Personnel monitoring and other monitoring which is required by law or considered necessary by the Contractor for Worker protection shall be the responsibility of the Contractor and performed by the Contractor's Air Sampling Professional. The Contractor shall disclose any interest they may have in the firm or laboratory performing the Field Air Sampling or analysis.
- D. Certifications:
1. Equipment Certification: Submit manufacturer's certification that vacuums, differential pressure equipment filters, and other local exhaust ventilation equipment conform to ANSI Z9.2-2006.
 2. Rental Equipment: When rental equipment is to be used in removal areas or to transport waste materials, a copy of the written notification provided to the rental company informing them of the nature of use of the rented equipment shall be submitted to the Owner's Construction Supervisor and signed by the rental company.
 3. Land Disposal Restrictions: Submit a copy of the completed Notice and Certification with each Hazardous Waste Manifest for wastes intended for land disposal pursuant to Title 22, Section 67740, to the Owner's Construction Supervisor and signed by the generator.
 4. For HEPA-filtration systems and vacuums submit the results of on-site DOP or Portacount testing of required efficiency.
 - a. Testing must include not only testing at the inlet, but also around the exterior housing of the filtration system including the control panel, wheels and exterior seams, rivets, and bolts.

- b. HEPA-filtration systems which pass testing at the filter, but fail testing of the housing may only be utilized within the work area as Air Filtration Equipment.

1.07 EMERGENCY PLANNING

- A. Emergency planning and procedures shall be developed by Contractor prior to abatement initiation.
- B. Emergency procedures shall be in written form and prominently posted. Contractor shall ensure that all persons entering the work area read these procedures and understand the Project site layout, location of emergency exits and emergency procedures.
- C. Emergency planning shall include considerations of fire, explosion, electrical hazards, slips, trips and falls, confined spaces, earthquakes and heat related injury. Written procedures shall be developed and employee training in procedures shall be provided by Contractor.
- D. Employees shall be trained in evacuation procedures in the event of work place emergencies.
 - 1. For non-life threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the work place to obtain proper medical treatment.
 - 2. For life threatening injury or illness, worker decontamination shall take least priority. After measures to stabilize the injured worker, remove him from the work place and secure proper medical treatment.
 - a. Telephone numbers of all emergency response personnel shall be prominently posted in the clean and equipment rooms.

1.08 FIRE PROTECTION

- A. All plastic, spray-on strippable coatings, and structural materials used in the asbestos abatement process shall be UL-approved and certified as fire retardant or noncombustible.
- B. Wood shall be pressure impregnable and certified as fire retardant.
- C. Safety Data Sheets (SDS) for fire retardant materials shall be made available upon request.
- D. All combustible rubbish and debris, including properly bagged asbestos shall be properly disposed of at the end of each working day.
- E. A minimum of one (1) 4A/60BC dry-chemical extinguisher shall be maintained at each of the following locations:
 - 1. At each corner of the work area. Where no clear corners exist, four (4) extinguishers shall be placed around the exterior wall of the work area so that they are approximately 25 percent of the total distance apart.
 - a. Exception: Where total contained work area is less than 1,000 square feet, two (2) 4A/60BC extinguishers shall be provided. All extinguishers shall be clearly identified with red tape.
 - 2. Contractor shall ensure that on site personnel are aware of the location and proper use of all extinguishers and other fire/life safety equipment.
- F. All existing fire detection, alarm systems, connections and standpipes shall remain in place, active and unobstructed. Any alteration must be approved by Owner.

PART 2 – PRODUCTS

2.01 GENERAL

- A. Submit manufacturer's product data, including Safety Data Sheets (SDS) for all the items listed under Part 2 – Products.

2.02 PROTECTIVE COVERING (PLASTIC)

- A. Fire retardant polyethylene sheets 6 mil and 4 mil in sizes to minimize frequency of joints, approved and listed by the State Fire Marshal per appropriate sections of the California Health and Safety Code.

2.03 TAPE, ADHESIVE, SEALANTS

- A. Duct tape 2 inches or wider, or equal, capable of sealing joints of adjacent sheets of plastic sheets and for attachment of plastic sheet to finished or unfinished surfaces of dissimilar materials and capable of adhering under both dry and wet conditions.
- B. Spray adhesive for sealing polyethylene to polyethylene shall contain no methylene chloride compounds.

2.04 PROTECTIVE PACKAGING

- A. Appropriately labeled 6 mil (or double 3 mil) sealable polyethylene bags as a minimum.
- B. Bilingual labels (English and Spanish) on containment glove bags, waste packages, contaminated material packages and other containers shall be in accordance with EPA or OSHA standards.

2.05 WARNING LABELS AND SIGNS

- A. As required by Title 8, Section 1529, Title 8, Section 5194 and MBARD Rule 424, NESHAPS.

2.06 REMOVAL AND ENCAPSULATION

- A. Surfactant (wetting agent) shall be a 50/50 mixture of polyoxyethylene ether and polyoxyethylene ester, or equivalent, mixed in proportion of 1 fluid ounce to 5 gallons.
- B. Encapsulating agent shall not be flammable and should not be solvent-based or utilize a vehicle (the liquid in which the solid parts of the encapsulant are suspended) consisting of hydrocarbon.
- C. Mastic removal solvents shall NOT be, or create, a RCRA waste, and shall be of the low odor variety.

2.07 PERSONAL PROTECTIVE EQUIPMENT

- A. Personal Protective Equipment shall comply with the requirements of Title 8, 1529.
- B. Work clothes shall consist of fire retardant, disposable, full-body coveralls, head covers, foot wear, and gloves, in accordance with Title 8, Section 1529, and ASTM standards. Sleeves at wrists and cuffs at ankles shall be secure.
- C. Eye protection and hard hats shall be available as required by applicable safety regulations and shall conform to ANSI Z87.1-2003 and Z89.1-1986.
- D. Provide authorized visitors with suitable protective clothing, headgear, eye protection, and footwear whenever they are required to enter Work Area.

2.08 RESPIRATORS

- A. Provide all workers, foremen, superintendents, authorized visitors, and inspectors personally issued and marked respiratory equipment jointly approved by NIOSH/MSHA. When respirators are employed, provide sufficient filters for replacement as recommended by manufacturers or this specification. Selection of respirators shall be made according to the guidance of Title 8, Section 1529, Title 8, Section 5144; and Table I of this section.
- B. The minimum respiratory protection required for this project is as follows (See also Table I of this section):
 - 1. Use either full face or half face negative pressured air purifying respirators for the following tasks:
 - a. Pre-construction sealing of openings and penetrations to the work areas with plastic sheeting,
 - b. Decontamination of tools and other removable items,
 - c. Loading asbestos-containing drums on truck for transportation and unloading bags at approved landfill,
 - d. During final wipe down of workspace; and
 - e. Owner or their environmental consultant will consider alternate respiratory protection systems proposed by the Contractor. The Contractor must provide documentation that asbestos levels during previous, comparable jobs were within

the protection factors of the respirators to be used as outlined in Table I. The use of the following type of respirators is contingent upon approval by Owner and their environmental consultant.

TABLE I		
Maximum Airborne Fiber Concentration Outside Respirator*	Protection Factor	Minimum Acceptable Respirator**
0.1 fiber/cc	10	Half-mask air purifying respirator, other than a disposable respirator, equipped with high efficiency filters
0.5 fibers/cc	50	Full face piece air-purifying respirator equipped with high efficiency filters or Type "C" supplied air respirators, full face piece, demand mode
10.0 fibers/cc	1,000	Full face piece powered air-purifying respirator equipped with high efficiency filters or Type "C" supplied air respirators, full face piece, pressure demand mode.
Over 10.0 fibers/cc	10,000	Self-contained breathing apparatus (SCBA), full face piece, pressure demand mode

Disposable single use respirators are not to be worn for protection against asbestos.

*Must demonstrate that the fiber levels will not exceed 0.01 f/cc inside the respirator using the respirator protection factor formula.

**Greater respiratory protection is always acceptable regardless of asbestos concentrations.

2. Use high efficiency powered air-purifying respirators (PAPR) for the following provided maximum airborne fiber concentration outside the respirator is at or below 1.0 fibers/cc:
 - a. All Class 1 work.
3. Alternate respiratory protection systems proposed by the Contractor will be considered by the Owner's Environmental Consultant. Documentation must be provided by the Contractor that asbestos levels during previous, comparable jobs within the prior 12 months were within the protection factors of the respirators to be used as outlined in Table I. The use of the alternate respiratory protection systems is contingent upon approval by the Owner's Environmental Consultant.
4. Provide workers with approved, permanent, personally-issued and marked respirators with replaceable filters. Provide sufficient quantity of filters approved by NIOSH for use in asbestos environments so that workers can change filters as required by manufacturer
5. during the workday. Filters shall not be used any longer than one workday. New, unused, and factory sealed, respirator filters shall be stored at the job site in the Clean Room and shall be totally protected from exposure to asbestos prior to their use.

2.09 VENTILATION EQUIPMENT

- A. Provide differential pressure equipment. This equipment shall have intact and properly installed HEPA filtration systems in compliance with ANSI Z9.2-2006, local exhaust ventilation. No air movement system or air filtering equipment shall discharge unfiltered air outside the Work Area. A minimum of negative 0.02 column inches of water pressure differential, relative to the outside pressure, shall be maintained inside the work area, during abatement, as evidenced by manometric measurements. Replace HEPA and preliminary filters when filters become clogged with particulate matter. Ventilation of the Work Area is to move contaminated air away from the breathing zone of employees and toward a filtration or collection device equipped with a HEPA filter. Provide enough air

filtration devices within the Work Area to maintain fiber levels within the protection factors of workers' respirators and to provide at least 4 air changes per hour.

PART 3 – EXECUTION

3.01 PROJECT PROCEDURES:

- A. Abatement Procedure Plans: Submit a detailed site specific plan of the work procedures for abatement and painting of asbestos-containing materials. Include, at a minimum, the following:
 - 1. Methods of removal and phasing of abatement.
 - 2. Schedule of abatement.
 - 3. Procedures for protecting workers, visitors, and employees and protection of spaces outside Work Area from contamination.
 - 4. Plans for decontamination facilities.
 - 5. Personnel monitoring procedures in accordance with Title 8, Section 1529.
 - 6. Warning Sign locations as per Title 8, Section 1529.
- B. Emergency Precautions and Procedures
 - 1. Establish emergency and fire exits from the Work Area.
 - 2. The Contractor shall be prepared to administer first aid to injured personnel after decontamination. Seriously injured personnel shall be treated immediately or evacuated without delay for decontamination. When an injury occurs, the Contractor shall stop Work and implement fiber reduction techniques (e.g., water spraying) until the injured person has been removed from the Work Area.
- C. Worker Protection Procedures (Bilingual: English and Spanish) -- To Be Posted in Clean Room.
 - 1. Each Worker and authorized visitor shall, upon entering the job site: Remove street clothes in the Clean-Change Room and put on a respirator and clean protective clothing before entering the Equipment Room or the Work Area.
 - 2. Workers shall, each time they leave the Work Area: Remove gross contamination from clothing before leaving the Work Area; proceed to the Equipment Room and remove clothing except respirators; still wearing the respirator, proceed to the showers; clean the outside of the respirator with soap and water; remove the respirator; thoroughly wash themselves.
 - 4. Contaminated work footwear shall be stored in the Equipment Room when not in use in the Work Area. Upon completion of asbestos abatement, dispose of footwear as contaminated waste or double bag and transport to next regulated work area.
 - 5. Workers shall not eat, drink, smoke, or chew gum or tobacco while in the Work Area.
 - 6. Workers and Authorized visitors with beards shall not enter the Work Area unless equipped with respirators approved for use with beards.

3.02 PREPARATION

- A. Work Areas (General):
 - 1. Contractor shall shut down, lock out, and tag-out electric power to all Work Areas.
 - 2. Contractor shall provide temporary power and lighting sources, insure safe installation of temporary power sources and equipment by compliance with all applicable electrical code requirements and Cal/OSHA requirements for temporary electrical systems. Protect each circuit with a Ground Fault Circuit Interrupter (GFCI) of proper size located in the temporary panel.
 - 3. Shut down and isolate heating, cooling, ventilation air systems to prevent contamination and fiber dispersal to other areas of the structure. During the Work, vents within the Work Area shall be sealed with tape and plastic sheeting and/or as shown on plans.

4. Do not begin Work until area is free of loose equipment.
 5. Pre-clean fixed objects within the proposed Work Areas, using HEPA filtered vacuum equipment and/or wet cleaning methods as appropriate, and enclose with protective barriers of plywood covered with minimum 4 mil plastic sheeting sealed with tape.
- B. Full Negative Pressure Containment Systems:
1. Seal off openings, including but not limited to corridors, doorways, ducts, grills, diffusers, and any other penetrations of the Work Areas, with plastic sheeting sealed with tape. Doorways and corridors which will not be used for passage during work must be sealed with barriers.
 2. Install sufficient quantity of pressure differential systems consisting of HEPA-Equipped, DOP tested machines.
 3. Install and maintain a manometer equipped with a strip chart recorder and zero calibrate. A minimum of negative 0.02 column inches of water pressure differential, relative to the outside pressure, shall be maintained inside the work area, during abatement.
 4. Install asbestos barrier tape within twenty feet of perimeter of building or designated work area.
 5. Install Decontamination Enclosure System with the proper number of chambers and decontamination equipment or equivalent prefabricated portable decontamination units as approved.
 6. Install view ports which allow outside observation of all stripping and removal of ACM.
 7. Maintain emergency and fire exits from Work Areas.
- C. Mini-Containment Systems:
1. Mini-containments may be used where the entire removal area is limited in size and can be totally enclosed by the mini-containment comprised of suitable framing/support system and 6 mil plastic sheeting.
 2. Mini-containments shall consist of a main chamber and at least one or more smaller chambers for decontamination and egress and shall be installed within a Regulated Area with warning signage.
 3. Maintain a negative pressure within the containment during use and operation of the mini- containment using DOP (or equivalent) certified HEPA filtered vacuums or exhaust equipment. Smoke test the containment to verify air movement is all inwards prior to its use.
 4. Install asbestos barrier tape within twenty feet of perimeter of building or designated work area.
 5. Install view ports which allow outside observation of all stripping and removal of ACM.
 6. Decontaminate all surfaces within the mini-containment prior to its removal. Take down of the containment is allowed only after final clearance inspection and testing by Owner or Owners Environmental Consultant. Reuse of a stand-alone mini-containment is allowable only if it is fully decontaminated after each use and inspected prior to moving to a new location.
- D. Glove Bag Systems:
1. Glove bag systems may be used for removal of asbestos insulation from piping, pipe fittings, and hangers.
 2. Install glove bags in accordance with the manufacturer's instruction and regulation and smoke test to detect leakage prior to use.
 3. Wrap and seal any loose or damaged insulation adjacent to points of removal with at least one layer of 6 mil plastic sheeting prior to glove bag installation.
 4. Establish a Regulated Area with signage and barrier tape at minimum to surround the glove bag operation. Install a 6 mil plastic drop sheet below each glove bag prior to start up.
 5. At least two qualified workers are required for each glove bag operation involving Class I asbestos removal.

6. Wet insulation or other material to be removed with amended water with water wand penetrating the glove bag at a sealed point prior to and during removal process within the glove bag.
 7. After asbestos removal, clean pipe and other interior surfaces including upper glove bag surfaces of dust and debris and lock down encapsulate all surfaces.
 8. Collapse the bag using a HEPA vacuum, seal off the wastes section, remove the bag and place in a labeled asbestos waste bag or container along with the drop sheet.
- E. Cut and Wrap Technique
1. This techniques may be used if the ACM insulated piping is to be demolished.
 2. Wrap ACM insulated pipe to be removed with two layers of 6 mil plastic sheeting, seal with duct tape, and apply asbestos warning labels.
 3. If pipe section is to be removed and flanges are bare and exposed, flanges can be unbolted or cut to remove wrapped pipe section whole. If flanges are insulated, remove insulation using glove bag technique to a safe distance to allow pipe run to be disassembled at flange.
 4. If pipe section is to be cut between flanges, install glove bag at cut points desired and remove insulation to extent necessary to allow safe pipe cutting. Seal remaining insulation at cut points with 6 mil plastic sheeting and tape. Wrap and seal the section to be removed with two layers of 6 mil plastic sheeting and tape and then remove the section after making the pipe cuts.
- F. Asbestos abatement work shall not commence until:
1. Arrangements have been made for disposal of waste at an acceptable site.
 2. Arrangements have been made for containing and disposal of waste water resulting from wet stripping.
 3. Work areas and parts of the building required to remain in use are effectively segregated.
 4. Applicable notices posted and permits obtained.
 5. Differential pressure systems and calibrated manometer are installed and operating.
 6. Tools, equipment, and waste bins are on hand.
 7. Arrangements have been made for building security.
 8. The contractor's work plan has been reviewed and approved by the Owner or Owner's Environmental Consultant.
- G. Decontamination Enclosure System (General):
1. Construct Decontamination Enclosure System with suitable framing. Walls and floor of Decontamination Enclosure System shall be lined with a minimum of 2 layers of 6 mil polyethylene sheeting sealed with duct tape.
 2. Access between contaminated and uncontaminated rooms or areas shall be through a curtained airlock.
- H. Maintenance of Enclosure Systems (General):
1. Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.
 2. Visually inspect enclosures at the beginning of each work period.

3.03 ASBESTOS REMOVAL (GROSS REMOVAL TECHNIQUE)

- A. Spray asbestos material with amended water, using spray equipment capable of providing a "mist" application to reduce the release of fibers. Saturate material sufficiently to wet it to substrate without causing excess dripping or de-lamination of the material. Spray asbestos material repeatedly during work process to maintain wet condition and to minimize asbestos fiber dispersion.
- B. Remove saturated asbestos material in small sections. As it is removed, pack material in sealed, properly labeled plastic bags of 6 mil minimum thickness and place in labeled containers for transport. Material shall not be allowed to dry out prior to insertion into container.

- C. The Contractor shall carry out all asbestos removal activities in a manner that will minimize pulverizing, breaking or creation of dust. Generally, manual removal methods will be preferred, although larger systems, such as power washers, are acceptable, as long as they are equipped with proper HEPA-filtration equipment and do not create an undue hazard.
- D. Seal and secure filled containers. Place labels on bags and containers in accordance with Title 8, Section 1529, Title 8, Section 5194 and MBARD Rule 424 NESHAPS, Asbestos. Disposal procedure and clean up shall be in accordance with Title 8, Section 1529. Store filled secured containers in an approved container area. This includes Title 8, Section 1529 labels for non- friable materials and ACCM (when on site)
- E. After completion of stripping work, surfaces from which asbestos has been removed shall be wire brushed and/or wet sponged or cleaned by an equivalent method to remove all visible material and residue. During this work the surfaces being cleaned shall be kept wet.
- F. Vacuum cleaners equipped with HEPA filters shall be used collect all debris and dust containing asbestos.
- G. Notify the Owner and the Owner's Observation Service in writing 24 hours in advance that the Work Area is ready for visual inspection review. During visual inspection the Owner's Observation Service shall verify that all surfaces in the Work Area are free from all visible material and residue. Otherwise, repeat wire brushing and/or wet sponging and cleaning as above until the Work Area is in compliance.
- H. After written notification to proceed from the Owner's Observation Service that the Work Area passed visual inspection, encapsulate all surfaces within the work area.
- I. After encapsulation notify the Owner and the Owner's Observation Service in writing that the Work Area is ready for air clearance sampling. A minimum of 12 hours is needed between encapsulation and air clearance sampling to allow for adequate drying. If air sampling fails air clearance criteria, repeat cleaning and/or application of encapsulant until the work area is in compliance.

3.04 ASBESTOS CEMENT (AC) PIPE EXCAVATION, CUTTING, & REMOVAL

- A. Carefully machine excavate to expose AC piping as necessary. Once exposed, manually excavate areas to prevent breakage where cuts, breaks, or taps are to be made;
- B. Establish a Regulated Area surrounding the location of cutting, tapping, and, or removal using barrier tape and signage at minimum;
- C. Place plastic sheeting below area to be cut or altered to catch any resulting ACM chips, dust or debris;
- D. Use methods and procedures to cut AC pipe without causing it to shatter, crumble, be pulverized or release visible dust into the air;
- E. Keep AC pipe and conduit wetted during all cutting and tapping work;
- F. Use only industry recommended practices for cutting, splicing, and tapping AC pipe. At minimum:
 - 1. Cutting is to be completed by special carbide tipped blade cutters that are frame adjustable to the circumference of the pipe and that have self-tracking rollers or "snap cutters" that operate with cutting wheels on a chain wrapper around the pipe barrow;
 - 2. Do not blow out with compressed air or dry sweep. Do not vacuum without a HEPA filtered vacuum, and;
 - 3. All cutting must be conducted wet and all resulting AC dust and debris must be cleaned up and disposed of as ACM contaminated waste.
- G. Piping sections to be demolished shall be carefully cut into manageable sections, wrapped and sealed in two layers of plastic sheeting, labeled, and carefully placed in labeled and lined securable asbestos waste disposal bin. All labels on bags and containers shall be in accordance with Title 8, Section 1529;
- H. All intact AC pipe waste and debris shall be disposed of as non-hazardous asbestos waste transported by non-hazardous asbestos waste manifest to a permitted asbestos disposal site.

3.05 ASBESTOS REMOVAL AND DISTURBANCE PROCEDURES-PROHIBITIONS

- A. Prohibitions. The following methods shall not be used to remove or clean up asbestos:
 - 1. Use of high speed abrasive disc saws without effective vacuum assisted HEPA filtered attachments to capture and remove asbestos dust at point of operation;
 - 2. Compressed air to remove or clean-up asbestos;
 - 3. Dry sweeping or shoveling of asbestos containing dust or debris;
 - 4. Aggressive removal methods where non-aggressive methods are feasible.
 - 5. Where aggressive methods are required, they must include special containment and control procedures acceptable to regulatory agencies and be approved by the Observation Service in advance.

3.06 DISPOSAL

- A. Waste Transportation: Submit the method of transport of hazardous and non-hazardous waste including name, address, EPA I.D. number (If applicable) and telephone number of transporter.
- B. Waste Sites: Submit for approval the name, class, address, EPA I.D. number and telephone number of hazardous and non-hazardous waste site(s) to be utilized for disposal.
- C. Waste Profiles: Abatement contractor is responsible for profiling all waste streams at the start of the project. Waste streams shall be segregated for required disposal testing. Contractor is responsible to test said materials in accordance with all Federal, State and local laws. Contractor must separate non-hazardous waste from hazardous waste. Contractor is to test all wastewater prior to release into the sanitary sewer drain in accordance with local and State water standards.
- D. Waste Manifests: Submit for approval at the pre-construction meeting a filled out hazardous and/or non-hazardous waste manifest form(s). Obtain necessary information for this purpose from the Owner. Give a copy of the Waste Manifest and the weight ticket from the landfill to the Owner's Environmental Consultant for each required shipment.
- E. Notify the Owner and the Owner's Observation Service in writing 48 hours in advance of the time when contaminated materials are to be removed from the site.
- F. The Contractor shall be responsible for safe handling and transportation of hazardous waste generated by this Contract to the designated Waste Site.
- G. The Contractor shall hold the Owner and Owner's Environmental Service harmless for claims, damages, losses, and expenses against them, including attorney's fees arising out of or resulting from asbestos spills on the site or spills en route to the disposal site.

3.07 AIR MONITORING

- A. Area Air Monitoring:
 - 1. Throughout the abatement process area air monitoring may be performed by the Owner's Environmental Consultant to ensure Work is done in conformance with fiber concentration limits of this section.
 - 2. If area air monitoring results analyzed by Phase Contrast Microscopy, NIOSH 7400 Methodology, outside the Work Area are in excess of 0.01 fibers per cubic centimeters (f/cc) of air, the Contractor shall make changes in work procedures to assure compliance with these minimum standards.
- B. Personnel Air Monitoring:
 - 1. The Contractor shall submit written reports to the Owner's Environmental Consultant of the Contractor's personnel air monitoring within twenty-four hours of the end of the previous day's shift. Personnel air monitoring shall not exceed the levels recommended for the type of respiratory protection in use.
- C. Air Clearance Sampling:
 - 1. Air clearance release criteria is when all of the samples collected in each work area are equal to or below 0.01 fibers per cubic centimeters (f/cc) of air analyzed by Phase Contrast Microscopy (PCM) Methodology. The owner will be responsible for one set of clearances inside each work area with a 24 hour turnaround time. If the first set of air

clearances fails to meet release criteria, the Contractor shall re-clean the work area(s) and additional air clearance sampling will be performed. Additionally, the Contractor could choose to have the samples not meeting clearance criteria analyzed by Transmission Electron Microscopy (TEM), AHERA Methodology, at their cost. The Contractor will be responsible for all costs incurred for the cleaning of the contamination, Owners Environmental Consultant's time to observe re-cleaning and perform sampling, and analytical costs for additional sampling at a less than 12 hour turnaround time.

3.08 CLEAN UP

- A. Maintain a clean project site during and upon completion of Work of this Section. Cleaning shall be in accordance with the General Requirements and Conditions.

END OF SECTION

APPENDIX A Tables

AREA 1: BUILDING AND HARDSCAPE ASBESTOS MATERIALS SUMMARY

HOMO. ID	MATERIAL	DESCRIPTIO N	LOCATION	CAL/OSH A CLASS	MBARD CATEGORY	ESTIMATE D QUANTITY
S	Vinyl Floor Tile/Mastic	Unknown Black/Black	Throug h t Under Other Floor Coverings Such As Carpet/Ma stic And Other Floor Tiles. This Material Is Adhered To A Wood Subfloor.	Class II	Category I - Non-Friable	3,100 SF

Subsurface asb0estos cement piping is assumed throughout the area.

SECTION 028333

REMOVAL AND DISPOSAL OF MATERIAL CONTAINING LEAD

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Removal and disposal of material containing lead.
- B. Related Sections:
 - 1. 02 82 13 Asbestos Abatement.
 - 2. 02 84 16 Hazardous Materials Removal and Disposal.

1.02 SCOPE OF WORK

- A. The work includes all demolition, removal, storage, transportation, waste characterization and disposal of all lead containing or contaminated building materials, articles, and items as specified, shown or reasonably implied in the contract documents, or discovered during work activities.
 - 1. Lead-Based Paint (LBP) and Lead-Based Materials (LBM) are defined as paint, coatings, and materials containing $\geq 5,000$ parts per million (ppm), 0.5% by weight, or ≥ 1.0 mg/cm² of lead.
 - 2. Lead-Containing Surface Coating (LCSC) is defined as materials with any detectable concentrations of lead.
- B. For a listing of LBP, LBM, and LCSC identified at the Project Site refer to Vista Environmental Consulting's report titled "Hazardous Materials Survey Report, Former Fort Ord - Areas 1, Seaside, California" dated January 14, 2022 and Appendix A Tables.
- C. The contractor is to review all contract documents and reports and field verify quantities and location of lead related work. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's Environmental Consultant, prior to bidding.
- D. The contractor shall make sure that LBP, LBM, and LCSC does not contaminate areas outside the regulated work areas. These areas include, but are not limited to, the interior of the buildings or the environment outside the buildings. If such contamination occurs, the contractor shall incur all costs associated with the decontamination of the areas. These costs include, but are not limited to, the Owner's Environmental Consultant fees and analytical fees deemed necessary by the Owner.
- E. If non-manual methods of asbestos removal are used the contractor shall guarantee that the water and/or blast media does not penetrate the building envelope. The building envelope includes, but is not limited to, the perimeter walls.
- F. Schedule of work shall be an 8-hour shift, Monday to Friday during normal working hours (0700 to 1900) unless a 48 hour notice is given in writing to the Owner and Environmental Consultant 48 hours in advance and is approved by the Owner.
- G. The Work includes, but is not limited to, the demolition, removal, cleaning, and disposal of the following lead containing/contaminated materials:
 - 1. Lead-Based Paint and Coatings
 - 2. Lead-Based Material – Solid Lead Components: Floor Drains and Pipe Coverings
 - 3. Lead-Containing Surface Coatings, Ceramic Tiles, and Toilets
 - 4. Materials that can be cleaned of all residue and will be disposed of as general construction debris.
 - 5. All materials used for work area preparation.
 - 6. All discarded personnel protective equipment.
 - 7. Other materials discovered during selective demolition and new work activities.
- H. If demolition activities include the application of heat, all surfaces covered with lead or other toxic preservatives, including coatings which generate toxic substances upon heating,

shall be stripped for a distance of at least twelve inches in all directions from the area of heat application prior to heat application.

- I. All removal, manual demolition, and clean-up of lead-based paint and lead-based shall be performed by a state-licensed contractor, using CDPH-certified workers with at least one CDPH-certified Supervisor. The abatement Contractor and Workers shall also meet the certification and training requirements of Federal EPA Renovation, Repair and Painting Rule 40 CFR 745.80.
- J. All removal and disturbance of lead-containing materials (not meeting the definition of "lead-based") as defined in 8 CCR 1532.1, may be performed by a state-licensed contractor, using lead-trained workers with certification of training meeting the requirements of 8 CCR 1532.1. Abatement contractor's workforce shall be supervised by experienced persons trained, knowledgeable and qualified in the techniques of lead abatement, handling and disposal of lead-containing and/or lead-contaminated materials, and the subsequent cleaning of contaminated areas. For this work the contractor and on-site supervisor shall meet the certification and training requirements of the Federal EPA Renovation, Repair and Painting Rule 40 CFR 745.80.
- K. It is not the responsibility of the Owner's Environmental Consultant to supervise the Contractor; nor to direct the Contractor's work effort; nor to assume the management of, or responsibility for, the Contractor's health and/or safety practices, nor its waste management, nor its regulatory compliance. At all times, the Contractor shall be solely responsible for the quality and execution of all phases and aspects of the work.

1.03 REFERENCES

- A. The following references are not an exhaustive list of all applicable federal, state, and local regulations, standards, laws, ordinances, and codes applicable to lead related construction work. The contractor shall perform all lead related work in accordance with the most recent edition of all applicable federal, state, and local regulations, standards, laws, ordinances, and codes and, where conflicts occur, the most stringent requirements shall be adhered to.
 1. Code of Federal Regulations (CFR):
 - a. 29 CFR 1910.12 - Construction Work.
 - b. 29 CFR 1910.134 - Subpart I, Personal Protective Equipment.
 - c. 29 CFR 1910.145 - Specifications for Accident Prevention Signs and tags.
 - d. 29 CFR 1910.1025 - Lead, General Industry.
 - e. 29 CFR 1910.1020 - Access to Employee Exposure and Medical Records.
 - f. 29 CFR 1910.1200 - Hazard Communication
 - g. 29 CFR 1926.55 - Gases, Vapors, Fumes, Dusts and Mists
 - h. 29 CFR 1926.62 - Lead – Construction Industry
 - i. 40 CFR 61 - Subpart A and Subpart M, USEPA, National Emission Standards for Hazardous Air Pollutants (NESHAPS).
 - j. 40 CFR 745.80 - Federal EPA Renovation, Repair and Painting Rule
 2. California Code of Regulations (CCR):
 - a. Title 8, Section 1532.1 - Lead in the Construction Industry
 - b. Title 8, Section 1537 - Welding, Cutting, and Heating of Coated Metals
 - c. Title 8, Section 5216 - General Industry Safety Orders, Lead Regulations.
 - d. Title 8, Section 5144 - Respiratory Protection
 - e. Title 8, Section 5194 - Hazard Communication
 - f. Title 8, Section 3204 - Access to Employee Exposure and Medical Records
 - g. Title 8, Section 1500 - 1938 – Construction Safety Orders
 - h. Title 8, Section 3200 - 6184 – General Industry Safety Orders

- i. Title 17 Sections 35001 - 36100 - Accreditation, Certification and Work Practices for Lead-Based Paint and Lead Hazards
- j. Title 22, Division 4.5, Environmental Health Standards for the Management of Hazardous Waste
- 3. California Health & Safety Code:
 - a. 17920.10 – Lead Hazards

B. Local Regulations

1.04 NOTIFICATIONS

- A. Contractor shall make all required written notifications to regulatory agencies including the following (If Applicable):
 - 1. California Division of Occupational Safety and Health
 - 2. California Department of Public Health

1.05 PROCEDURES

- A. Contractor shall perform all Work in compliance with the most recent edition of all applicable federal, state, and local regulations, standards and codes governing lead abatement.
 - 1. Requirements include obtaining permits, licenses, inspections, releases and similar documentation, as well as payments, statements and similar requirements associated with codes, regulations, and standards.
- B. Regulations, Standards, and Codes (General):
 - 1. General applicability of federal, state, and local regulations, standards and codes governing lead abatement, except to the extent that more explicit or more stringent requirements are written directly into the contract documents, all applicable regulations, standards, and codes have the same force and effect and are made a part of the contract documents as if copied directly into the contract documents, or as if published copies are bound herewith.
- C. Contractor Responsibility: The Contractor shall assume full responsibility and liability for compliance with all applicable federal, state, and local regulations pertaining to work practices and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The contractor is responsible for providing training, medical examinations and maintaining training/medical records of personnel as required by the applicable federal, state, and local regulations. The Contractor shall hold the Owner and the Environmental Consultant harmless for failure to comply with any applicable lead abatement, safety, health or other regulation on the part of himself, his employees, or his subcontractors.

1.06 SUBMITTALS

- A. Requirements are as set forth in Division 1 Specification Section for items required to be submitted under this section.
- B. Prior to commencement of work, the Contractor shall submit copies to the Owner or Owner's Environmental Consultant, documentation for approval that includes, without limitation, the following:
 - 1. Copies of licenses and registrations required including subcontractors licenses.
 - 2. The Contractor shall specify in writing which contractors will be performing work that impacts painted and coated surfaces. This list shall match the name of the contractor with the work task they will be performing that impacts painted and coated surfaces.
 - 3. Transportation: Submit proof that the Contractor or subcontractor is a registered hazardous waste transporter with the State of California and Department of Toxic Substances.
 - 4. Waste Sites: Submit for approval the name, class, address, EPA I.D. number and telephone number of waste site(s) to be utilized for disposal.
 - 5. Copies of written notification to the following regulatory agencies:
 - a. California Division of Occupational Safety and Health
 - b. California Department of Public Health

6. Proof of legal right to use patented equipment or processes.
 7. Manufacturer's certification that HEPA vacuums, differential pressure air filtration devices and other local exhaust ventilation equipment conform to ANSI Z9.2-2006.
 8. Full manufacturer's product data and material safety data sheets for all chemical products to be used on site and maintain current information on site at all times
 9. A construction schedule indicating milestones and dates of completion for each phase of the Work. Submit the schedule to Owner or their Environmental Consultant for review prior to the Pre-Construction Meeting.
 10. Documentation that Contractor's employees performing removal, disposal, and air sampling operations have received training in accordance with Title 8, Section 1532.1, Federal EPA Renovation, Repair and Painting Rule 40 CFR 745.80, and Title 17, Sections 35001-36100.
 11. Documentation, from a Physician, that all Contractor's employees or agents who may be exposed to airborne lead in excess of background levels have received medical surveillance in accordance with Title 8, Section 1532.1 to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects. The Contractor must be aware of and provide information to the examining physician about unusual conditions in the workplace environment (e.g. high temperatures, humidity, chemical contaminants) that may impact on the employee's ability to perform work activities.
 12. Documentation, from a Physician, that all Contractor's employees or agents who may be exposed to lead contaminated dust have received a comprehensive medical examination as required by Title 8, Section 1532.1. In addition, the Contractor is to provide Blood Lead Tests on each employee within a two-week period prior to the commencement of said work and within a two-week period of the completion of this project.
 13. Documentation of respirator fit testing for all Contractor employees and agents who must enter the work area. This fit testing shall be in accordance with qualitative or quantitative procedures as required by Title 8, Sections 1532.1 & 5144 regulations and conducted at least annually.
 14. An emergency preparedness plan as required by Article 1.09 - EMERGENCY PLANNING.
 15. A site specific work plan based on scope of work, detailing removal methods to be utilized and measures to prevent the release of lead containing/contaminated materials to soil, water, air, and other environmental media. Include a diagram showing containment set-up, decontamination unit(s), location of negative air machine and exhaust placement.
 16. Master schedule, showing phasing, number of shifts, time for air clearances, tear down and manpower loading to be utilized for the duration of the project.
 17. Copies of all transport manifests, trip tickets and disposal receipts for all waste materials removed from the work area within 48 hours of the transport, to the Owner or Owner's Environmental Consultant.
- C. During abatement activities, Contractor shall submit to Owner or Owner's Environmental Consultant documentation that includes, without limitation, the following:
1. Copies of the work area entry/exit log book daily. Log book must record name, affiliation, time in, and time out for each entry into the work area.
 2. Post on site (within 48 hours) results of all required OSHA air monitoring.
 3. Copies of all accident/incident reports where injury or damage has occurred on or to the Owner's property within 2 hours.

1.07 NOTICES

- A. Post in the clean room area of the worker decontamination enclosure a list containing the names, and telephone numbers of Owner or Owner's Environmental Consultant.
- B. Post in the clean room area of the worker decontamination enclosure, or other approved prominent location, a list of all persons authorized to enter the work area.

- C. Additional postings shall include:
 - 1. Visitor Entry and Exit Log.
 - 2. Employee Daily Sign in Log.
 - 3. Entry and Exit Procedures.
 - 4. Emergency Procedures.
 - 5. As required by the Department of Labor.
 - 6. As required by the Federal EPA Renovation, Repair and Painting Rule.

1.08 SITE USE AND SECURITY

- A. Confine operations at the site to the areas permitted under the Contract. Portions of the site beyond which areas on which work is indicated are not to be disturbed.
- B. The work area shall be restricted only to authorized, trained and protected personnel, including Contractor, Contractor's employees, Owner's employees, Owner's Environmental Consultant, Federal, State, and Local inspectors.
- C. Entry into the work area by unauthorized individuals shall be reported immediately to the Owner's Environmental Consultant.
- D. Contractor shall be responsible for project area security during abatement operations in order to protect work efforts and equipment. Contractor shall remove wastes and clean areas prior to leaving the area each day. Contractor is responsible for any containment or equipment left beyond the scheduled shift.

1.09 EMERGENCY PLANNING

- A. Emergency planning and procedures shall be developed by Contractor prior to abatement initiation.
- B. Emergency procedures shall be in written form and prominently posted. Contractor shall ensure that all persons entering the work area read these procedures and understand the Project site layout, location of emergency exits and emergency procedures.
- C. Emergency planning shall include considerations of fire, explosion, electrical hazards, slips, trips and falls, confined spaces, earthquakes and heat related injury. Written procedures shall be developed and employee training in procedures shall be provided by Contractor.
- D. Employees shall be trained in evacuation procedures in the event of work place emergencies.
 - 1. For non-life threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the work
 - 2. For life threatening injury or illness, worker decontamination shall take least priority. After measures to stabilize the injured worker, remove him from the work place and secure proper medical treatment.
 - a. Telephone numbers of all emergency response personnel shall be prominently posted in the clean and equipment rooms.

1.10 FIRE PROTECTION

- A. All plastic, spray-on strippable coatings, and structural materials used in the removal and disposal of material containing lead process shall be UL approved and certified as fire retardant or noncombustible.
- B. Wood shall be pressure treated and certified as fire retardant.
- C. Safety Data Sheets (SDS) for fire retardant materials shall be made available upon request
- D. All combustible rubbish and debris, including properly bagged lead associated waste shall be properly disposed of at the end of each working day.
- E. A minimum of one (1) 4A/60BC dry-chemical extinguisher shall be maintained at each of the following locations:
 - 1. At each corner of the work area. Where no clear corners exist, four (4) extinguishers shall be placed around the exterior wall of the work area so that they are approximately 25 percent of the total distance apart.

- a. Exception: Where total contained work area is less than 1,000 square feet, two (2) 4A/60BC extinguishers shall be provided. All extinguishers shall be clearly identified with red tape.
2. Contractor shall ensure that on site personnel are aware of the location and proper use of all extinguishers and other fire/life safety equipment.

PART 2 – PRODUCTS

2.01 MATERIALS

- A. General: Contractor shall carefully adhere to the following:
 1. All plastic, spray-on strippable coatings and structural materials used shall be UL certified as fire retardant or non-combustible.
 2. Deliver all materials in the original packages, containers, or bundles bearing the name of the manufacturer and brand name (where applicable).
 3. Polyethylene sheeting utilized for worker decontamination enclosures and barriers shall be black or opaque in color and shall be a minimum of 6 mil. thick.
 4. Disposal bags shall be minimum 6 mil polyethylene, as required by Title 8, Section 1532.1 and Title 22 Sections 66262.31 and 66262.32.
 5. Stick on labels as per EPA, DTSC, DOT and/or CAL/OSHA requirements for disposal drums.
 6. Warning signs as required by CAL/OSHA shall be utilized at each regulated work area.
 7. Postings at all entrances to the structure(s) undergoing disturbance of lead-based or lead-containing paint as per Title 8, Section 1532.1, Title 17, Sections 35000-36100 and 40 CFR 745.80.
- B. Lead Removal:
 1. Furnish all SDS sheets for applicable materials. Non-phosphate based cleaning agents, such as "Lead Dissolve" or equivalent, shall be used for clean-up applications.

2.02 EQUIPMENT

- A. General:
 1. Respirators shall be furnished to the abatement workers by Contractor. The respirators shall have been tested and approved by National Institute of Occupational Safety and Health (NIOSH) for use in lead-contaminated atmospheres.
 2. Contractor shall provide full body disposable protective clothing, including head, body, and foot coverings to all workers and visitors working in and/or inspecting the work area where exposure to lead dust may exist, in sizes adequate to accommodate movement without tearing.
 3. Additional safety equipment (e.g. hard hats, eye, safety, and disposable gloves), as necessary, shall be furnished to all workers and authorized visitors and shall comply with Title 8, Sections 1500-1938 and 3200-6184.
 4. Non-skid footwear shall be worn by all abatement workers. Disposable clothing shall be adequately sealed to the footwear to prevent body contamination.
 5. Furnish a sufficient supply of disposable mops, rags, and sponges for work area decontamination.
- B. Removal:
 1. A sufficient supply of scaffolds, ladders, lifts and hand tools (e.g., scrapers, wire cutters, brushes, utility knives, wire saws, etc.) shall be furnished as needed.
 2. Rubber dustpans and rubber squeegees shall be furnished for cleanup.
 3. Brushes utilized for removing loose lead containing material shall have nylon or fiber bristles, not metal.
 4. A sufficient supply of HEPA filtered vacuum systems shall be furnished during cleanup.
- C. Enclosure:
 1. Powered tools equipped with HEPA filtered local exhaust ventilation shall be utilized during the installation of enclosures and supports if there is any need to disturb lead-containing materials during this process. As an alternative, lead material may be

partially removed following controlled removal procedures approved by the Owner or their Environmental Consultant.

PART 3 – EXECUTION

3.01 LBP/LBM/LCSC REMOVAL PREPARATION:

- A. All work which disturbs LBP, LBM, or LCSC, must be performed using “Lead-Safe Work Practices” per Title 17 Sections 35000-36100 and 40 CFR 745.80.
- B. All lead abatement workers shall be provided, at a minimum, with the following:
 - 1. A clean changing area.
 - 2. Wash basins equipped with soap, clean water and towels.
 - 3. Proper respiratory protection.
 - 4. Training on proper techniques in decontamination and personal hygiene requirements.
 - 5. Training on the health hazards of lead exposure including ingestion of lead-contaminated food.
- C. Removal Preparation:
 - 1. Set up a lead control area by cordoning abatement area off with warning tape bearing bold, 2 inch lettering stating the following: “WARNING LEAD WORK AREA POISON NO SMOKING OR EATING” or as required by local ordinances.
 - 2. Install remote worker decontamination unit described below or as agreed upon with the Owner or the Owner's Environmental Consultant.
 - 3. Workers shall don personnel protective equipment as required.
 - 4. Pre-clean all vertical and horizontal surfaces within the work area using a HEPA-filtered vacuum and/or wet cleaning (with non-phosphate detergents) as appropriate. Contractor shall not use any methods that would raise dust such as dry sweeping or otherwise disturb LBP/LBM/LCSC during the pre-cleaning phase.
 - 5. HEPA vacuum all surfaces below for a distance of three feet in all directions from the intended building component on which removal is to be conducted, removing all pre-existing paint debris.
 - 6. Place 6-mil polyethylene sheeting on the floors and all openings into the work area. Openings include, but are not limited to, doors, windows, and HVAC supply/return grills.
 - 7. Perform removal activities in accordance with this specification.

3.02 LBP/LBM/LCSC REMOVAL PROCEDURES

- A. Prior to the start of work the Contractor shall submit to the Owner or the Owner's Environmental Consultant, for approval, a site specific work plan detailing LBP/LBM/LCSC removal methods to be utilized and measures to prevent the release of lead contaminated materials to soil, water, air, and other environmental media.
- B. Lead glazed ceramic tiles shall be removed substantially intact using methods that reduce the amount of airborne lead particulates generated and the amount of waste for disposal.
- C. For health and safety reasons the following LBP/LBM/LCSC removal methods shall not be used:
 - 1. Chemical removal methods that produce liquid waste that is regulated under present United States Environmental Protection Agency, RCRA, state and local hazardous waste regulations, unless approved by the Owner.
 - 2. Burning of lead based paint with a heat guns operating at temperatures greater than 1,100° F, an open flame torch, or equivalent method that will generate airborne lead fumes/particles.
 - 3. Dry sanding lead based paint with an abrasive electric or air-powered sander without a HEPA exhaust tool or HEPA vacuum filtration equipment.
 - 4. Uncontained water blasting.

3.03 LEAD WASTE HANDLING PROCEDURES

- A. Maintain surfaces within the lead control area free of accumulations of paint chips and dust. Restrict the spread of dust and debris; keep waste from being distributed over the work

area. Do not dry sweep or use compressed air to clean up the area. At the end of each work shift and when the lead removal operation has been completed, clean the area of visible lead paint contamination by vacuuming with a HEPA filtered vacuum cleaner and/or wet mopping the area.

- B. All disposable personal protective equipment, respirator cartridges, and HEPA vacuum filters shall be disposed of upon completion of the work shift and when the lead removal operation has been completed.
- C. All removed LBP/LBM/LCSC, lead-contaminated clothing and equipment, and lead-containing dust/debris shall be placed into a 55-gallon drum that meets the requirements of 49 CFR 178, Title 22, Sections 66263.10 - 66263.58 and any other applicable state regulations.
 - 1. Waste streams shall be segregated for required disposal testing. Contractor is responsible to test said materials in accordance with all Federal, State and local laws. Contractor must separate non-hazardous waste from hazardous waste. Contractor is to test all wastewater prior to release into the sanitary sewer drain in accordance with local and State water standards. The Owner's Environmental Consultant must be notified in writing at least 48 hours in advance of testing, so testing can be verified. A copy of the test results and waste profiles shall be sent to the Owner and Owner's Environmental Consultant prior to waste removal.
 - 2. Properly label each drum to identify the type of waste per 49 CFR 172, Title 22, Sections 66263.10 - 66263.58 and any other applicable state regulations, and the date lead- contaminated wastes were first put into the drum.
- D. The Contractor shall make provisions for the safe storage of waste on site while waste characterization is being performed and until transport off site for disposal. All wastes must be transported for disposal within 90 days of the generation. For health and safety reasons, waste storage areas must be treated as lead control areas with restricted access.
- E. All lead waste or lead-contaminated waste shall be characterized by performing TTLC, STLC and/or TCLP tests prior to disposal. TCLP results indicating 5 parts per million or more lead shall be disposed of as RCRA regulated hazardous waste. Lead waste characterization and disposal shall be the responsibility of the Contractor and shall be performed while the Owner's Environmental Consultant is present.

3.04 TRANSPORTATION OF LEAD WASTE

- A. The transporter of the hazardous waste shall comply with requirements of Title 22, Sections 66263.10 - 66263.58 and with applicable provisions of hazardous materials regulations adopted by the Department of California Highway Patrol, Title 13, Division 2, Chapter 6, Article 3, commencing with section 1160, pursuant to Vehicle Code Sections 27903, 34500, 34501, and 31309, governing containers, packing, labels, marking, vehicle placards, shipping papers, loading, shipping certificates and incident reporting.

3.05 LEAD WORK AREA CLEAN UP PROCEDURE

- A. After all removal activities on the LBP/LBM/LCSC have been completed from the specified building components, the Contractor shall clean all identified surfaces and remove any "settled" lead dust/debris. The following procedures shall be used:
 - 1. HEPA vacuum all surfaces in the work area including woodwork, walls, windows, window wells, and floors.
 - 2. Wash all surfaces in the work area with a solution containing non-phosphate detergents. Prepare solution using hot water. Workers shall use towels, sponges, and mops to clean all surfaces including all areas that had been covered with polyethylene sheeting. Cleaning shall start at the ceiling and work down to the floors. Mix up a new cleaning solution frequently so it remains relatively clean.
 - 3. Discard all items used for cleaning (towels, sponges, rags, mop heads, etc.) in a plastic bag for later disposal into steel drums.
 - 4. After the surfaces have dried, HEPA vacuum all surfaces a second time until no dust or residue can be seen.

3.06 FINAL INSPECTION

- A. The following two inspections shall be performed by the Owner or their Environmental Consultant with the assistance of the General Contractor:
 - 1. A visual inspection after all LBP/LBM/LCSC removal work is completed. This inspection will determine that all required surfaces have been properly stabilized. The inspection will occur at a minimum of 24 hours after all wet methods have been used to assure that de-lamination caused by the water has not occurred. The General Contractor shall sign off in writing that the paint has been sufficiently stabilized and the remaining paints and coatings are ready for repainting.
 - 2. After the final cleanup of the work areas a visual inspection will be conducted to ensure that all settled dust and lead containing/contaminated debris has been removed.

3.07 LEAD WORKER DECONTAMINATION SYSTEMS

- A. Worker decontamination enclosure systems shall be provided for all locations where workers will enter or exit the work area. As a minimum, one system at a single location is required.
- B. Worker decontamination enclosure systems constructed at the Project site shall utilize 6 mil black or opaque polyethylene sheeting, or other approved materials for privacy.
- C. Alternate methods of providing Decontamination facilities may be submitted to the Owner or their Environmental Consultant for approval. Do not proceed with any such method(s) without the written authorization.
 - 1. Prior to the receipt of negative exposure assessments as required in Title 8, Section 1532.1, the worker decontamination enclosure system shall consist of at least a clean room, wash room, and an equipment room, each separated from the other and from the work area by airlocks.
 - 2. Clean rooms shall be sized to adequately accommodate the work crew. Space for storing respirators shall be provided in this area. Clean work clothes, clean disposable clothing, replacement filters for respirators, towels and other necessary items shall be provided in adequate supply at the clean room. A location for posting notices shall also be provided in this area.
 - 3. Wash room shall contain one or more washbasins as necessary to adequately accommodate workers. An adequate supply of soap, shampoo and towels shall be supplied by Contractor and available at all times.
 - 4. The equipment room shall be used for storage of equipment and tools at the end of a shift after they have been decontaminated using a HEPA filtered vacuum and/or wet cleaning techniques as appropriate. Replacement filters (in sealed containers until used) for filtration equipment, extra tools, containers or surfactant and other materials and equipment that may be required during the abatement may also be stored here as needed. A walk off pan (a small children's swimming pool or equivalent filled with water shall be located in the room for workers to clean off foot coverings after leaving the work area and prevent excessive contamination of the worker decontamination enclosure system. A drum lined with a 6 mil polyethylene bag for collection of disposable clothing shall be located in this room. Contaminated footwear shall be stored in this area for reuse the following workday.

3.08 ALTERNATE PROCEDURES

- A. If specified procedures cannot be utilized, a request shall be made in writing to the Owner or Owner's Environmental Consultant providing details of the problem encountered and recommended alternatives.
- B. Alternative procedures shall provide equivalent or greater protection than procedures that are replaced.
- C. Any alternative procedure must be approved in writing by the Owner or the Owner's Environmental Consultant prior to the implementation of the procedure and must have no additional cost impacts.

3.09 OWNER PERFORMED SAMPLING AND TESTING

- A. The Owner may, at its discretion, perform environmental air, soil, and/or wipe sampling for lead. Contractor shall control lead levels following the completion of LBP/LCSC related work in the work boundary or lead control area and at all times outside the work boundary or lead control area so that the airborne lead level, soil levels, and ground surface levels do not exceed established background or regulatory levels.
- B. Wipe and Soil clearance sampling may be performed within the controlled work areas following completion of all lead-related impact and decontamination efforts.
 - 1. Release Criteria: Decontamination of the work site is complete when each of at least two samples per work area are analyzed and reveal lead concentrations below those set forth by CDPH in 17 CCR 35001, et. seq. Generally, this shall be <10 micrograms of lead per square foot of area on interior floors and 400 parts per million of lead in soil.
 - 2. If these conditions are not met then the decontamination is incomplete and the cleaning procedures shall be repeated. The area shall be re-tested by the Owner's Environmental Consultant at the contractor's expense at no additional cost to Owner until satisfactory levels are obtained.

3.10 OSHA PERSONNEL AIR MONITORING

- A. The contractor is responsible for providing daily OSHA compliance monitoring as required by Title 8, Section 1532.1.
 - 1. At minimum, Contractor shall conduct breathing zone personal air monitoring of each and every different job category/task (i.e. preparation, wet scraping, feathering, priming, clean-up, etc.). Breathing zone shall be considered an area within a hemisphere, forward of the shoulders, with a radius of 6 to 9 inches from the center at the nose or mouth of an employee.
 - 2. Monitoring shall be conducted by a qualified professional experienced and knowledgeable about the methods of air monitoring and in accordance with Title 8, Section 1532.1.
 - 3. Monitoring shall be performed daily until an NEA has been established for each and every different job category/task.
 - 4. Monitoring results and appropriate laboratory analysis reports shall be submitted to Owner or Owner's Environmental Consultant within forty-eight (48) hours of the monitoring work.

END OF SECTION

APPENDIX A

Tables

AREA 1: BUILDING AND HARDSCAPE LEAD MATERIALS SUMMARY

Lead Paint and Materials

ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	PB	UNITS
Outside	Wall	Wood	Beige	Intact	18.6	mg/cm2
Inside	Door	Wood	Brown	Intact	0.05	mg/cm2
Inside	Window Sill	Wood	Brown	Intact	0.01	mg/cm2
Inside	Shelf	Wood	Brown	Intact	0.1	mg/cm2
Outside	Curb	Concrete	Blue	Deteriorated	1.3	mg/cm2
Outside	Curb	Concrete	Green	Deteriorated	0.14	mg/cm2
Outside	Curb	Concrete	Red	Deteriorated	0.4	mg/cm2
Outside	Curb	Asphalt	Red	Deteriorated	0.01	mg/cm2

Bold = Lead-based

Lead Waste Characterization Estimate

SAMPLE #	DESCRIPTION	LOCATION	RESULT	UNITS
1-PBW-01	Roofing 66%, Stucco 12%, Wood Unpainted 11%, Wallboard/Ceiling Tiles 7%, Wood Painted 5%, by Weight	Interior and Exterior	20	mg/kg

The sample results was below the Title 22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes TTLC level.

SECTION 028416
HAZARDOUS MATERIALS REMOVAL AND DISPOSAL

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes:
 - 1. Hazardous materials removal and disposal
- B. Related Sections:
 - 1. 02 82 13 Asbestos Abatement.
 - 2. 02 83 33 Removal and Disposal of Material Containing Lead.

1.02 SCOPE OF WORK

- A. All work shall be supervised by experienced certified persons trained, knowledgeable and qualified in the techniques of hazardous materials abatement, and handling of hazardous waste, hazardous containing and contaminated materials and the subsequent cleaning of hazardous material contaminated areas.
- B. For a listing of hazardous materials identified at the Project Site refer to Vista Environmental Consulting's report titled Vista Environmental Consulting's reports titled "'Hazardous Materials Survey Report, Former Fort Ord - Areas 1, Seaside, California" dated January 14, 2022, "Soil Sampling Report and Soil Remediation Work Plan, Former Fort Ord - Phase 1A, Seaside, California" dated March 4, 2022, and Appendix A Tables.
- C. The contractor is to review all contract documents and reports, and field verify quantities and locations of hazardous materials related work. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's Environmental Consultant, prior to bidding.
- D. Schedule of work shall be an 8-hour shift, Monday to Friday during normal working hours (0700 to 1900) unless a 48 hour notice is given in writing to the Owner and Environmental Consultant 48 hours in advance and is approved by the Owner.
- E. Handling and management of hazardous waste shall be performed by personnel trained to the requirements of 29 CFR 1910. 120(p)(8) & (q); 22 CCR 66265.16 and 66273.36. The Contractor shall provide documentation that such training has been provided to its employees pursuant to 29 CFR 1910.120(p)(8) & (q).
- F. Contractor shall furnish all labor, materials, services, insurance (specifically covering the handling of hazardous waste), disposal and/or recycling of said waste, waste characterization of all potentially hazardous materials and equipment which is specified, shown or reasonably implied in project documents or discovered during renovation/demolition activities.
- G. The contractor shall make sure that hazardous materials do not contaminate areas outside the regulated work areas. These areas include, but are not limited to, the interior of the buildings or the environment outside the buildings. If such contamination occurs, the contractor shall incur all costs associated with the decontamination of the areas. These costs include, but are not limited to, the Owner's Environmental Consultant fees and analytical fees deemed necessary by the Owner.
- H. The work, in general, includes, but is not limited to, the following;
 - 1. The removal, handling, transportation, and recycling or disposal of all materials that meet the definition of hazardous or extremely hazardous waste, as defined in Title 22, Division 4.5 et seq. of the California Code of Regulations (CCR) or is otherwise regulated by local, state or federal law and is not covered by related sections. This includes, but is not limited to:
 - a. Potentially contaminated soil related work.
 - b. Ballasts from light fixtures. All light fixtures are to be visually inspected, prior to removal or retrofitting, to determine if they contain PCB's or are classified as electronic waste.

- 1) Ballasts that are unmarked or not labeled as electronic ballasts should be considered PCB-containing and properly handled.
 - 2) Ballasts marked No PCB's or PCB Free should be considered as such.
 - 3) Ballasts marked or labeled as electronic ballasts shall be considered electronic waste and handled as such.
- c. Oil-based transformers in the path of construction. All oil-based transformers are assumed to contain PCB's.
- d. Fluorescent light tubes and other non-incandescent lamps (e.g. Metal Halide, Mercury Vapor, High Pressure Sodium, Halogen and Compact Fluorescent) from light fixtures.
- e. Mercury containing switching devices found in thermometers, thermostats and other equipment controls.
- f. Batteries contained in equipment or building systems such as emergency lighting, fire alarm systems, hard wired exit signs, or free-standing.
- g. Electronic waste, such as computer systems, communications equipment, electronic light ballasts, fire life and safety systems, televisions, and other electronic devices. This includes any device with a "printed" circuit board.
- h. Other materials classified as Universal Wastes per Title 22 CCR Sections 66273.1- 66273.90.
- i. Ozone depleting chemicals found in Heating, Ventilation, and Air Conditioning (HVAC) systems, water fountains/coolers, and fire suppression systems.
- j. Radiation containing devices such as smoke detectors and non-hard wired fire exit signs.
- k. Treated wood waste.
2. Placement of all contaminated items generated as a result of work activities and clean up in approved storage containers;
3. Marking and labeling of all hazardous Articles and Items for storage and disposal purposes;
4. Transportation of all hazardous waste, items and containers to disposal facility or, to an approved and permitted off-site processing site for recycling;
5. Labeling and record keeping in accordance with all applicable laws and regulations;
6. Prepare manifests and all other required documentation for transportation, processing and disposal of hazardous waste for signature by the Owner's Environmental Consultant.
- I. The Contractor's potentially contaminated soil related work includes the following:
 1. Review the referenced "Soil Screening Sampling Report" for likely soil contaminants and levels found to potentially be of concern for worker protection and soil waste handling and disposal based on the limited sampling, sample locations and depths. Actual contaminants and contaminate levels may vary based on actual excavation locations and depths.
 2. Workers and their supervisors excavating and/or handling excavated soils for demolishing buildings or hardscape shall have appropriate hazard communication training for anticipated soil contaminants as well as dust and contamination control measures required, and other job related hazards.
 3. All excavated soils to be reused or disposed of shall be temporarily stockpiled at a location pre-approved by the Owner and sampled and analyzed for hazardous contaminants. Stock piles shall be protected from wind and rain using protective covering or approved treatment. All sample results shall be provided to the Owner or Owner's Environmental Consultant for review before re-use or disposal of soils. The Contractor shall be responsible for all costs related to soil excavation, stockpiling, testing, and disposal.
 4. The Contractor is required to take appropriate dust control measures to prevent visual fugitive dust emissions from leaving the construction excavation area. No visual emissions outside the immediate construction area is allowed.
 5. All shipments of contaminated soil shall be in accordance with analytical results, disposal site requirements, proper manifesting and transportation to appropriately

permitted waste site or if shipped for re-use based on sample results that are acceptable and approved by the Owner.

- J. Contractor is responsible for profiling all waste streams. Results must be submitted to the Environmental Consultant for verification of proper disposal.
- K. It is not the responsibility of the Owner's Environmental Consultant to supervise the Contractor; nor to direct the Contractor's work effort; nor to assume the management of, or responsibility for, the Contractor's health and/or safety practices, nor its waste management, nor its regulatory compliance. At all times, the Contractor shall be solely responsible for the quality and execution of all phases and aspects of the work.

1.03 QUALITY ASSURANCE

- A. Work under this Contract is unique, in that it includes the handling and transportation of highly toxic substances and materials requiring special expertise. Therefore, the Contractor or his Agent must meet specific qualifications.
 - 1. Single Party Responsibility: The firm performing the work of this contract shall be responsible for, and accomplish, all hazardous materials related activities as noted in the contract documents and included herein.
 - 2. License Requirements: Any Contractor or his Agent performing work on this contract must be currently licensed by the State of California, for the transporting, handling and hauling of hazardous and extremely hazardous wastes as required for the work to be performed.
 - 3. Qualifications Statement: Provide a Statement of Qualifications to the Owner or Owner's Environmental Consultant for review and acceptance. The statement shall provide sufficient data and information to prove to the satisfaction of the Owner's Environmental Consultant that the firm performing the work of this contract is fully experienced in the handling, transportation and storage of hazardous waste and contaminated articles and items.
 - a. The statement shall, at a minimum, provide the following information and data regarding work experience with hazardous waste:
 - 1) Show, that as a major activity of work, the firm proposing to perform work of this contract has been engaged in hazardous waste related activities, including the removal, spill clean-up, transportation and disposal of high and low concentration toxic fluids and solids.
 - 2) Provide data proving experience on a minimum of three prior projects involving the type of activities as noted in this specification section during the last two years.
 - 3) Provide proof of current licensing for the transportation and hauling of extremely hazardous wastes as required in this specification section.
 - 4. If the Contractor or his Agent does not meet the pre-qualification specified herein, a qualified alternative should be provided at no additional cost to the client.

1.04 GENERAL REQUIREMENTS

- A. Insurance: Refer to General and Supplementary Conditions for insurance requirements.
- B. Regulations: All work shall comply with the United States Environmental Protection Agency (EPA) rules and regulations governing hazardous waste: Title 40 CFR, 239 - 282, as well as the United States Department of Transportation Hazmat Safety Regulations Title 49, CFR, Parts 100-185 as published in the most recently published edition of the Federal Register. Additionally, all work and work related practices should comply with applicable federal, state and local rules and regulations including, but not limited to, Title 40, CFR Part 761-- Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution In Commerce, And Use Prohibitions; the California Department of Industrial Relations, Title 8 CCR, Division 1, Chapter 4; California Department of Public Health, Title 22 CCR, Division 4.5; and the California Health and Safety Code. Where conflicts occur, compliance will be based upon the most stringent for the location and activity being conducted.

- C. Coordination with Electrical Trades: All hazardous waste related work activities to be accomplished under this contract shall be closely coordinated with the electrical work to minimize potential toxic exposure as well as minimize service interruptions.
- D. Scheduling of Work: Prior to commencing any work, thoroughly inspect the work area and prepare a schedule which lists anticipated time frames and sequence of operations for the various work activities. The schedule shall include activities such as, removal of equipment, spill clean-up, removal of all hazardous waste containing or contaminated articles, items and containers from the work to on-site long-term storage facilities or off-site disposal facility. The schedule shall also include intended routing for all hazardous waste items to be removed from the work area and transported to on site long-term storage facilities or off-site disposal facility. Work activities, sequence of work, required service interruptions and routing scheme should be coordinated with the Owner or Owner's Environmental Consultant. Schedules of disconnections, hazardous waste related activities, and re-energization shall be presented to the Owner or Owner's Environmental Consultant for approval at least two weeks in advance of commencing any work. All other electrical work shall be accomplished before starting removal stages of hazardous waste work. Schedule shall be tightly held to and coordinated with the Owner or Owner's Environmental Consultant.
- E. Work Plan: Prior to the start of work the Contractor performing the work of this Contract shall develop, together with applicable subcontractors, a site specific work plan and submit to the Owner's Environmental Consultant for approval. This work plan shall, at a minimum, specify procedures, products and materials for containment of the regulated work area, removal of hazardous waste containing/contaminated liquids and solids, decontamination and disposal of the equipment which contained the hazardous wastes, waste storage containers, spill clean-up, personnel decontamination, emergencies, first aid and temporary on site waste storage. This work plan shall also include the names and day time phone numbers of all key personnel, the location of all required on site documentation and emergency/first aid equipment and delineation of the regulated work area. A generalized, "boilerplate" type of plan will not be acceptable.

1.05 SUBMITTALS

- A. Requirements are as set forth in Division 1 Specification Sections for items required to be submitted under this section.
- B. Complete lists of all materials and equipment proposed for use in the work. List shall include such items as protective clothing, respiratory protection, absorbents, solvents, waste storage containers, Article and Item containers, and all appurtenances. A current safety data sheet (SDS) shall be submitted for each item for which a SDS is available. For items for which no SDS is available, the name of manufacturer, brand name and catalog number of each item where applicable shall be submitted.
- C. A detailed site specific work plan based on scope of work. For removal or disturbance of contaminated soils the work plan shall include a description of demolition and excavation methods and dust control methods during soil disturbance. Method and procedures for preventing Work Area access to unauthorized personnel and protection workers, visitors, employees and spaces outside the Work Area from exposure to contamination. In addition, the detailed work plan shall include evaluation of excavated soil contamination, stock piling, and transportation and disposal of solid and hazardous soil wastes.
- D. Hazardous waste hauler's license number, EPA identification number, registered registration with the State of California and Department of Toxic Substances Control and Department of Transportation (DOT).
- E. Waste Sites: Submit for approval the name, class, address, EPA I.D. number and telephone number of hazardous and non-hazardous waste site(s) to be utilized for disposal.
- F. Waste Profiles: Submit all waste profiles and waste evaluation analytical results.
- G. A contingency plan covering accidental hazardous waste spills and worker exposure to hazardous waste.

- H. Copies of all transport manifests, trip tickets and disposal receipts for all asbestos waste materials removed from the work area within 48 hours of the transport, to the Environmental Consultant.

1.06 SAFETY PROCEDURES AND WORKER PROTECTION

- A. Take all precautions and measures required to protect employees, inspection personnel, Owner's on site personnel and the general public from exposure to hazardous waste solids, liquids and vapors.
 - 1. All personnel authorized for entry into work areas shall be instructed in the proper procedures for working with or around electrical hazards energized equipment and hazardous waste containing/contaminated materials.
 - 2. All electrical equipment upon which hazardous waste related activities are to be performed shall be de-energized, locked out/tagged out and permanently disconnected from any power source prior to the commencement of the work.
 - 3. Consumption of food or tobacco products shall not be permitted in any of the project work areas where hazardous wastes, volatile solvents and/or other hazardous materials are present. Additionally, no open flames will be permitted in these same areas. Signage to this effect shall be provided for each work area.
 - 4. The Contractor performing the work of this Contract shall develop, together with applicable subcontractors, a contingency plan covering accidental hazardous waste spills and worker exposure to hazardous waste. Separate sections of the plan shall address unique conditions and emergency resources at the facility under the Contract. A generalized, "boilerplate" type of plan will not be acceptable. The submittal shall also include a separate section to describe the hauler's spill contingency plan and avoidance procedures.
- B. Work Area Protection and Marking: Prior to commencing any hazardous waste related work activities provide barricades and warning signs or warning tape to clearly identify and effectively guard against unauthorized entry into work area.
 - 1. Place barricades or otherwise demarcate to maintain a minimum of 25-feet from all perimeters of the work being conducted to the barricades, where feasible.
 - a. Warning tape: Warning tape bearing bold, 2 inch lettering stating the following: "DANGER - KEEP OUT - TOXIC CHEMICAL WORK AREA" or as required by local ordinances.
 - b. Signs: Warning signs shall be suspended from rope and placed at intervals of approximately 10 feet. Warning signs for work area shall be approximately 18 inches square with yellow background and 1 inch black letters. Signs shall read: "DANGER - KEEP OUT - TOXIC CHEMICAL WORK AREA".
 - 2. All equipment such as tools, containers, etc., shall be confined to the work area until work is complete, containers are sealed and equipment properly decontaminated and safely stored for transport.
- C. Protective Clothing and Equipment: All workers will follow applicable Federal and State regulations regarding the work activities, including but not limited to OSHA regulations, fall protection standards, respiratory protection, ladder/scaffolding safety, training requirements, personal air monitoring, and personal protective equipment (PPE). At all times when hazardous waste fluids or mixtures in any volume are not sealed in drums, containers or electrical equipment, workers shall wear:
 - 1. Gloves impermeable to both hazardous waste and the clean-up agent in use.
 - 2. Disposable, full body suit, impermeable to both hazardous waste and the clean-up agent in use.
 - 3. Appropriate eye protection to insure that eyes are protected from liquid splatter or exposure to concentrated vapors or fumes.
 - 4. Respiratory protection appropriate for the concentration of the hazardous material(s) and atmosphere present. Supplied air must meet requirements for Grade D air, at a minimum.
 - a. The Contractor shall provide protective clothing, eye protection, and breathing apparatus as required for authorized inspection personnel upon request.

- D. Personnel Protection and Procedures: The hazardous waste work area shall at no time be left unattended from the commencement of remediation work and until all hazardous waste and incidentals have been sealed in approved containers. If immediate transportation to the hazardous waste storage facility or disposal facility is not feasible, the work area must be secured in a manner approved by the Owner or Owner's Environmental Consultant.
1. During work procedures and at all times when hazardous waste containing/contaminated fluids in any volume are not sealed in drums, containers or electrical equipment, all personnel entering the regulated work area must don protective clothing and equipment. Upon exiting the work area, all disposable protective clothing shall be placed in appropriate waste storage drums and sealed, for subsequent transportation to the on-site storage facility or disposal facility.
 2. Workers with cuts or scratches shall seal these wounds sufficiently to prevent accidental contact of the hazardous materials within the regulated work area prior to entering the regulated work area. Similarly, workers who accidentally incur minor cuts or scratches in the course of work activities shall immediately leave the work area, follow appropriate medical decontamination for known hazards and/or seek medical attention, before returning to the work area.
 3. The contractor shall develop and submit to the Owner's Environmental Health and Safety Department for approval a Health & Safety Plan (HASp) specific to the work activities.
 4. All SDS for materials used on this project shall be submitted to the Owner's Environmental Health and Safety Department for approval.
 5. The contractor is responsible for providing daily OSHA compliance monitoring as required by CCR Title 8 and 29 CFR, for the hazardous materials work being performed.
 6. The first day's samples for all personal air monitoring shall be submitted to the laboratory on a rush basis to ensure rapid reporting of the initial exposure level and to adjust PPE, appropriately.

1.07 SITE USE AND SECURITY

- A. The work area shall be restricted only to authorized, trained and protected personnel, including Contractor, Contractor's employees, Owner's employees, Owner's Environmental Consultant, federal, state, and local inspectors.
- B. Entry into the work area by unauthorized individuals shall be reported immediately to the Owner's Environmental Consultant.
- C. Contractor shall be responsible for project area security during abatement operations in order to protect work efforts and equipment. Contractor shall remove wastes and clean areas prior to leaving the area each day. Contractor is responsible for any containment or equipment left beyond the scheduled shift.

1.08 EMERGENCY PLANNING

- A. Emergency planning and procedures shall be developed by Contractor prior to abatement initiation.
- B. Emergency procedures shall be in written form and prominently posted. Contractor shall ensure that all persons entering the work area read these procedures and understand the Project site layout, location of emergency exits and emergency procedures.
- C. Emergency planning shall include considerations of fire, explosion, electrical hazards, slips, trips and falls, confined spaces, earthquakes and heat related injury. Written procedures shall be developed and employee training in procedures shall be provided by Contractor.
- D. Employees shall be trained in evacuation procedures in the event of work place emergencies.
 1. For non-life threatening situations, employees injured or otherwise incapacitated shall decontaminate following normal procedures with assistance from fellow workers, if necessary, before exiting the work place to obtain proper medical treatment.

2. For life threatening injury or illness, worker decontamination shall take least priority. After measures to stabilize the injured worker, remove him from the work place and secure proper medical treatment.
 - a. Telephone numbers of all emergency response personnel shall be prominently posted in the clean and equipment rooms.
- E. Employees shall be trained in the location and proper use of all extinguishers and other fire/life safety equipment.

PART 2 – PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. Storage Containers:
 1. All hazardous waste fluids, hazardous waste-contaminated fluids, including flush and cleaning solvents and mixtures, shall be stored in sealed DOT approved closed top drums or other waste container approved for storage of these materials.
 2. All hazardous waste solid wastes and items including disposable items used in the course of the work such as rags, absorbents, protective clothing, etc., shall be stored in sealed DOT approved closed top type drums or other waste container approved for storage of these materials.
 3. Any hazardous waste article container, other than approved DOT drums, intended for storage, shall be submitted to the Owner or Owner's Environmental Consultant for approval.
- B. Solvents, Cleaning Agents and Absorbents:
 1. Solvents: An appropriate solvent in which hazardous wastes are shown to be soluble in. Care should be taken to limit the complexity of the waste stream. In all cases where solvents are used in the course of work, proper ventilation shall be provided by the Contractor to insure that resulting fumes/vapors are not dispersed to occupied building areas either as a result of natural convection or via air intakes for building ventilation systems. The manufacturer's recommendations for application and requirements of Cal/OSHA shall be strictly observed.
 2. Cleaning Agent: An appropriate cleaning agent in which hazardous wastes are shown to be soluble in. Care should be taken to limit the complexity of the waste stream. Numerous, non-toxic, cleaning agents shown to meet or exceed the solubility requirement above are commercially available. In all cases where cleaners are used in the course of work, proper ventilation shall be provided by the Contractor to insure that resulting fumes/vapors are not dispersed to occupied building areas either as a result of natural convection or via air intakes for building ventilation systems. The manufacturer's recommendations for application and requirements of Cal/OSHA shall be strictly observed.
 3. Absorbents: An appropriate absorbent for the hazardous waste being collected/contained. Care should be taken to limit the complexity of the waste stream. Numerous, non-toxic, absorbents shown to meet or exceed the solubility requirement above are commercially available. The manufacturer's recommendations for use or application and requirements of Cal/OSHA shall be strictly observed.

PART 3 – EXECUTION

3.01 SPILL CLEAN-UP, CONTAINERIZATION AND MARKING

- A. Clean-Up of Work Area, Hazardous Waste Articles and Spills:
 1. Equipment and Tools: After the last hazardous waste has been removed and all fluids and solids cleaned from remaining fixtures and surfaces, all tools and equipment used in the work shall be decontaminated and properly stored for reuse.
 - a. All non-permeable tools that may have come in contact with hazardous waste at any concentration shall be thoroughly double washed/rinsed with an appropriate cleaning agent, wiped clean and properly stored.
 2. Hazardous Waste Contaminated Articles: All exterior surfaces of equipment that may have come in contact with hazardous waste or contaminated solids or fluids either

- during the course of work activities or due to past leaks shall be double washed/rinsed, at a minimum, with an appropriate cleaning agent and wiped clean.
3. Solid Impenetrable Surfaces: All metal surfaces and surfaces with impervious liners which have come in contact with hazardous waste or hazardous waste mixtures in the course of the work or as a result of past leaks shall be thoroughly cleaned using a combination of absorbents and solvents or cleaning agents. Minimum cleaning requirements for these surfaces include removal of bulk material and two rinses with the cleaning agent of the surface or surfaces, which come in contact with hazardous waste or hazardous waste mixtures in the course of the work or as a result of past leaks.
 - a. The work area shall be effectively ventilated during operations such that vapors used in decontamination and cleaning are not vented to occupied building areas. Upon completion of hazardous waste-related activities, if fumes or vapors are still present in levels, which could impede breathing or be considered toxic under state and/or NIOSH standards, the Contractor shall provide additional ventilation to accelerate drying.
 - b. Auxiliary breathing apparatus may only be used by personnel trained in the use of this equipment, medically cleared to wear this equipment and experienced in conducting the required work activities while wearing equipment, which could impede safe work practices.
 4. Soils and Porous Materials: The U.S. EPA, Region IX, regards soil, asphalt, wood, cement and un-sealed concrete as porous materials that absorb hazardous waste. Where practicable, these materials must be removed when they are within the spill or contamination boundary.
 5. Decontamination Verification: Completion of decontamination activities will be verified by the Owner's Environmental Consultant collecting an appropriate number and type of samples for specific hazardous waste and surfaces. Contractor is responsible for all costs associated with spill clean-up oversight and sampling.
- B. Containerization and Marking:
1. All liquids generated as a result of work activities and clean-up operations shall be placed in appropriate waste containers and the containers sealed.
 2. All solids such as absorbents, rags, disposable protective clothing, soils, and other incidentals shall be placed in appropriate waste containers and the containers sealed.
 3. All drums (and Article containers where used) shall be permanently marked as to specific contents and the first date of accumulation. In addition, each drum (and container) shall be marked with the appropriate labels as per 40 CFR Part 273, 49 CFR Part 178, 40 CFR Part 262 and Title 22 CCR Section 66262.34.

3.02 HANDLING AND TRANSPORTATION TO STORAGE FACILITIES

- A. Handling:
1. Drums: All closed and open top drums must be permanently sealed and marked prior to loading on transport vehicle. Filled drums shall be loaded on the transport vehicle by any of the following methods:
 - a. By a hoist or lift truck utilizing a two-point drum lifter.
 - b. By a hoist or lift truck provided with a band-around type drum lifter, or;
 - c. By a lift truck lifting the drums from underneath by a pallet attached to the drum by a banding arrangement.
 2. Drums shall not be lifted by:
 - a. Any rope, chain or cloth slings tied about the drum.
 - b. Placement of drums on bare lift truck forks.
 - c. Forcing drums between forks of a lift truck, or;
 - d. Any commercial drum lifters exerting force on the sides of a drum.
 3. All drums or article containers shall be secured to the transport vehicle to prevent movement in transit.

3.03 TRANSPORTATION TO DISPOSAL FACILITY

- A. General: All Hazardous Waste Articles removed and all drums containing liquids, solids and incidentals shall be transported to the off-site hazardous waste approved and permitted recycling/disposal facility.
 - 1. The firm performing the work of this Section shall be licensed for the transportation and hauling of hazardous or extremely hazardous wastes as appropriate. The firm shall provide a route plan, which clearly identifies the routes he proposes to follow while transporting hazardous waste Items from the various work sites (points of generation) to the off-site facilities.
 - 2. A minimum of two operators shall be in attendance at all times when hazardous waste items are being transported, loaded and unloaded.
 - 3. Once waste containers are full and ready for offsite disposal notify the Owner's Environmental Specialist at 916-732-5335.
- B. Application of the Rules in This Part - General Provisions:
 - 1. The rules in this section apply to each motor carrier engaged in the transportation of hazardous materials by a motor vehicle which must be marked or placarded in accordance with 49 CFR Parts 171 and 177 and:
 - a. Each officer or employee of the carrier who performs supervisory duties related to the transportation of hazardous wastes and hazardous materials.
 - b. Each person who operates or who is in charge of motor vehicle(s) transporting hazardous materials.
- C. Compliance with Federal Motor Carrier Safety Regulations:
 - 1. A motor carrier driver or other person must comply with the rules when he/she is transporting hazardous materials by a motor vehicle, which must be marked or placarded in accordance with 49 CFR Parts 171 and 177.
- D. State and Local Laws, Ordinances and Regulations:
 - 1. Every motor vehicle transporting or storing Articles and Items containing hazardous materials must be operated and parked in compliance with the laws, ordinances and regulations of the state jurisdiction of which it is being operated in, unless they are at variance with specific regulations of the Department of Transportation which are applicable to the operation of that vehicle which impose a more stringent obligation or restraint.
- E. Attendance and Surveillance of Motor Vehicles:
 - 1. A motor vehicle, which contains hazardous material, which is located on a public street or highway or the shoulder of a public highway, must be attended by its driver. However, the vehicle need not be attended while its driver is performing duties, which are necessary to his duties as the operator of the vehicle. For purpose of this section:
 - a. A motor vehicle is attended when the person in charge of the vehicle is on the vehicle, awake, or is within one hundred feet of the vehicle and has it within his unobstructed field of view.
 - b. A qualified representative of a motor carrier is a person who:
 - 1) Has been designated by the carrier to attend the vehicle;
 - 2) Is aware of the nature of the hazardous materials contained in the vehicle he attends to;
 - 3) Has been instructed in the procedures he must follow in emergencies and;
 - 4) Is authorized to move the vehicle and has the means and ability to do so.
 - 1. Parking:
 - 1. Parking:
 - 2. A motor vehicle, which contains or hazardous materials, must not be parked on or within five feet of the traveled portion of public street or highway except for brief periods when the necessities of operation require the vehicle to be parked and make it impractical to stop the vehicle in any other place.
- F. Routes:
 - 1. Unless there is no practicable alternative, a motor vehicle which contains hazardous materials must be operated over routes which do not go through or near heavily

populated areas, places where crowds are assembled, tunnels, narrow streets, or alleys. Operating convenience is not a basis for determining whether it is practicable to operate a motor vehicle in accordance with this paragraph.

G. Fires/Open Flames:

1. A motor vehicle containing hazardous materials must not be operated near an open fire unless its driver has first taken precautions to ascertain that the vehicle can safely pass the fire without stopping.
 - a. A motor vehicle containing hazardous materials must not be parked within three hundred feet of an open fire.

H. Smoking:

1. No person may smoke or carry a lighted cigarette, cigar, or pipe, on or within twenty-five (25) feet of any contractor's vehicle, which contains flammable materials (flushing solvents), or an empty tank motor vehicle, which has been used to transport flammable materials.

I. Fueling:

1. When a motor vehicle, which contains hazardous materials, is being fueled:
 - a. Its engine must not be operating and;
 - b. A person must be in control of the fueling process at the point where the fuel tank is filled.

J. Tires:

1. If a motor vehicle which contains hazardous materials is equipped with dual tires on any axle, its driver must stop the vehicle in a safe location at least once during each two hours or one hundred miles of travel, whichever is less, and must examine the tires. The driver must also examine the vehicle tires at the beginning of each trip and each time the vehicle is parked.
2. If, as the result of an examination pursuant to the preceding paragraph of this section, or otherwise, a tire is found to be flat, leaking or improperly inflated the driver must cause the tire to be repaired, replaced, or properly inflated before the vehicle is driven. However, the vehicle may be driven to the nearest safe place to perform the required repair, replacement, or inflation. If, as the result of an examination a tire is found to be overheated the tire will be removed and placed at a safe distance from the vehicle. The driver shall not operate the vehicle until the cause of the overheating is corrected.

K. Binding and Tie-Down:

1. If a motor vehicle transports hazardous materials all containers must be properly secured in place to insure that no equipment items or containers can be loose or unsafely placed into the transport vehicle. This may include chaining, roping or strapping and winching. The driver of the vehicle must stop the vehicle in a safe location at least once during each two hours or one hundred miles of travel whichever is less and inspect the contents of the shipment. At the time of inspection if any form of binding is found to be loose the driver shall immediately take action to remedy the situation for safe transportation.
2. Any equipment, drums, or other Articles carried in an open, flatbed or stake type truck shall be covered with a tarp to protect it from the elements.

L. Hazardous Waste Instruction and Documents:

1. A motor carrier that transports "Hazardous Waste" must furnish the driver of each motor vehicle in which the waste is transported the following documents:
 - a. A copy of these rules.
 - b. A document containing instructions on procedures to be followed in the event of accident or delay. The documents must include the names and telephone numbers of persons to be contacted, and the substance of the hazardous wastes being transported, and the precautions to be taken in emergencies such as fires, accident or leakages.
 - c. Manifest and permit documents described in these specifications and required for waste transport.

M. Marking of Vehicles:

1. A motor vehicle being operated must be marked if that vehicle is:
 - a. Transporting hazardous materials of a kind that require the vehicle to be marked or placarded in accordance with 49 CFR Parts 171 and 177 and;
 - b. Commercial vehicles must display the name or trade name of the carrier operating the vehicle. These vehicles must display markings, which designate the carrier as being a commercial vehicle "for hire".

3.04 HAZARDOUS WASTE DISPOSAL AND RECYCLING

- A. The Contractor shall recycle or treat and dispose of all collected hazardous wastes collected and generated during the execution of this Contract including those Articles, fluids, etc. set forth in PART 1 GENERAL of these specifications.
- B. Except as may be otherwise specifically directed by the Owner or Owner's Environmental Consultant, the Contractor shall recycle or treat and dispose of the waste materials as governed by Title 40 CFR, 239 - 282, Title 22 CCR Division 4.5, and other federal, state, local regulations and subsequent amendments:
 1. By disposal, incineration or recycling at a facility approved for such use by the U.S. Environmental Protection Agency, and all other controlling regulatory agencies and bodies of the state, county and municipality of that facility's location all hazardous waste fluids, flushing fluids, and other hazardous waste contaminants. Waste contaminated solids are also to be incinerated as suitable and allowed for this type of disposal.
- C. All hazardous wastes generated as part of these operations will be likewise disposed of by the Contractor in a legal manner and said disposal is included in the Contractor's total work item fee.
- D. The Contractor shall not sell, transfer, or recover any material from the wastes received from the Owner without their prior written consent.

3.05 MANIFEST AND RECORDS

- A. The Contractor shall provide the Owner or Owner's Environmental Consultant with a compliance certificate verifying that all waste received by it has been properly recycled or treated and disposed.
- B. The Contractor shall provide the Owner or Owner's Environmental Consultant copies of all manifests, permits, weight tickets or other documents currently in effect relating to the specific hazardous wastes to be transported, recycled or treated and disposed hereunder except as otherwise stated in this Section. The Contractor shall also promptly furnish to the Owner or Owner's Environmental Consultant copies of all new or renewal permits or other documents applicable to this agreement as soon as the Contractor receives same.
- C. The Contractor shall furnish completed U.S. EPA approved Uniform Hazardous Waste Manifest for all Hazardous Waste Articles to be collected from the facility at which the removal and decontamination occurred. These manifests shall accompany the waste loads to disposal and be properly completed by the hauler and disposal agent as required by federal and state hazardous waste management law. The final manifest and weight ticket shall then be returned by registered mail to the Owner or Owner's Environmental Consultant within the designated time period specified by federal law.
- D. It shall be the responsibility of the Owner to finalize their hazardous waste records regarding the removal and final disposition of hazardous waste articles.
- E. The contract work will not be considered complete nor will the Owner make final payment until the Owner or Owner's Environmental Consultant receives certifications of proper disposal, incineration and/or recycling.

3.06 PLACEMENT IN STORAGE AND RECORDS

- A. Unloading and Placement in Storage:
 1. Transport vehicles shall be unloaded utilizing the same equipment and methods as for loading.

2. Drums and articles shall be placed in the storage facility in locations as directed by the Owner or Owner's Environmental Consultant.
 - a. Articles shall be placed such that ample clearance is provided around equipment to facilitate future inspection.
 - b. Drums shall be placed on pallets of sufficient strength to withstand double stacking. Drums shall not be stacked at time of storage unless space is limited as determined by the Owner or Owner's Environmental Consultant. Where stacking of drums is necessary, pallets shall be placed between the drum layers.
 3. Immediately following unloading of the hazardous waste transport vehicle, the cargo area shall be inspected to check for any fluid leaks. If any fluids are found, the source of the leaking drum or items shall be identified and sealed.
 - a. The contaminated cargo area shall be thoroughly double washed/rinsed clean with absorbents, solvents and liquid cleaner. Cleaning agents, solvents and solids shall be placed in proper drums for disposal.
- B. Records: Upon completion of all hazardous waste work related activities the Contractor shall provide a complete record of such activities and storage data to the Safety Officer or other administrator responsible for hazardous wastes at the site. In addition, two copies of the record shall be transmitted to the Owner or Owner's Environmental Consultant. The record shall include the following data:
1. Name of the firm performing the work of this Section and technician in charge:
 2. Drums (and Article Containers where applicable):
 - a. Drum size (30 or 55 gallon).
 - b. Identification of contents, i.e., for liquids, flush solvents, cleaning solvents for solids, rags, absorbents, soil, etc.
 - c. Weight in pounds and gallons of contents of each drum (or container).
 - d. Date placed in storage.

3.07 ALTERNATE PROCEDURES

- A. If specified procedures cannot be utilized, a request shall be made in writing to the Owner or Owner's Environmental Consultant providing details of the problem encountered and recommended alternatives.
- B. Alternative procedures shall provide equivalent or greater protection than procedures that are replaced.
- C. Any alternative procedure must be approved in writing by the Owner or the Owner's Environmental Consultant prior to the implementation of the procedure and must have no additional cost impacts.

3.08 OWNER PERFORMED SAMPLING AND TESTING

- A. The Owner may, at its discretion, perform environmental air, soil, and/or wipe sampling as appropriate or required for the hazardous materials work performed. Contractor shall control hazardous materials following the completion of related work in the work boundary or control area and at all times outside the work boundary or control area so that the airborne levels, soil levels, and ground surface levels do not exceed established background or regulatory levels for the hazardous material for which work is performed.

3.09 OSHA PERSONNEL AIR MONITORING

- A. The contractor is responsible for providing daily OSHA compliance monitoring as required by CCR Title 8 and 29 CFR, for the hazardous materials work being performed.
 1. At minimum, Contractor shall conduct breathing zone personal air monitoring of each and every different job category/task (i.e. preparation, wet scraping, feathering, priming, clean- up, etc.). Breathing zone shall be considered an area within a hemisphere, forward of the shoulders, with a radius of 6 to 9 inches from the center at the nose or mouth of an employee.
 2. Monitoring shall be conducted by a qualified professional experienced and knowledgeable about the methods of air monitoring and in accordance with Title 8 and 29 CFR.

3. Monitoring results and appropriate laboratory analysis reports shall be submitted to Owner or Owner's Environmental Consultant within twenty four (24) hours of the receipt of the analytical results.

END OF SECTION

APPENDIX A

Tables

AREA 1: BUILDING AND HARDSCAPE OTHER HAZARDOUS MATERIALS SUMMARY

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	96
Other Non-Incandescent Lamps	Universal Waste	3
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	48
Refrigerator	Ozone Depleting Chemicals	1
HVAC	Ozone Depleting Chemicals	1

TABLE 1
Analytical Results Summary for Metals in Soil Seaside - Campus Town Development Former Fort Ord Army Base
Seaside, California

Sample Location		Sample Depth (feet bgs ¹)	Sample Date ^{2,3}	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	STLC Pb	TCLP Pb	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	
				Results are in milligrams per kilogram(mg/kg)																				
AREA 1	HARDSCAPE	0.5	4/29/21	<3.3	1.2	21	<0.55	<0.55	13	3.6	73	3.9	1.6	NA ⁴	NA	<0.15	<1.1	13	<3.3	<0.55	<3.3	12	7.6	
		1	7/9/21	<2.6	1.5	18	<0.44	<0.44	12	<0.80	1.9	4.4	2.4	NA	NA	<0.15	<0.88	9	<2.6	<0.44	<2.6	8.2	7.1	
		1.5	7/9/21	<2.9	0.83	22	<0.48	<0.48	13	<0.80	1.9	2.5	2.1	NA	NA	<0.16	<0.95	9	<2.9	<0.48	<2.9	8.9	7.4	
		2	7/9/21	<2.5	1.4	25	<0.42	<0.42	12	1.3	2	3	4.5	NA	NA	<0.16	<0.83	8.1	<2.5	<0.42	<2.5	9.6	9.3	
		3.0	8/26/21	<2.9	1.4	30	<0.48	<0.48	13	<0.26	2.2	2.1	5.9	NA	NA	<0.16	<0.95	8.7	<2.9	<0.48	<2.9	12	8.6	
		7.0	8/26/21	<3.3	1.5	31	<0.54	<0.54	15	<0.26	2.1	1.9	2.4	NA	NA	<0.15	<1.1	1.1	<3.3	<0.54	<3.3	12	8.4	
	BUILDING 4214	0.5	5/24/17	NA	3.97	NA	NA	NA	NA	NA	NA	NA	237.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		0.5	4/29/21	<2.9	2.8	150	<0.49	<0.49	33	<0.80	4.2	15	180.0	5.2	0.1	0.21	<0.97	15	<2.9	<0.49	<2.9	17	190	
		1	7/9/21	<2.8	2.8	55	<0.47	<0.47	19	2.8	2.4	6.5	36.0	NA	NA	<0.15	<0.94	12	<2.8	<0.47	<2.8	11	73	
		1.5	7/9/21	<2.8	2.3	46	<0.46	<0.46	17	<0.80	2.4	5.6	44.0	NA	NA	<0.14	<0.93	11	<2.8	<0.46	<2.8	11	60	
		2	7/9/21	<2.5	1.5	26	<0.42	<0.42	12	1.6	1.9	2.3	5.3	NA	NA	<0.15	<0.85	9.2	<2.5	<0.42	<2.5	8.7	13	
		3.0	8/26/21	<2.9	1.7	19	<0.49	<0.49	14	<0.26	1.8	1.7	2.2	NA	NA	<0.15	<0.98	11	<2.9	<0.49	<2.9	9.8	7.9	
		7.0	8/26/21	<3.1	1.2	21	<0.52	<0.52	12	<0.26	1.9	1.8	2.3	NA	NA	<0.15	<1.0	8.3	<3.1	<0.52	<3.1	9.8	8.5	
Background Soil Samples																								
BG-0.5-26AUG2021		0.5	8/26/21	<3.0	1.4	42	<0.51	<0.51	13	<0.26	2.2	3.8	7.60	NA	NA	<0.16	<1.0	8.9	<3.0	<0.51	<3.0	12	14	
BG-1.0-26AUG2021		1.0	8/26/21	<3.1	1.6	46	<0.52	<0.52	14	<0.26	2.3	2.8	3.40	NA	NA	<0.16	<1.0	9.0	<3.1	<0.52	<3.1	13	9.2	
BG-1.5-26AUG2021		1.5	8/26/21	<3.0	1.7	43	<0.50	<0.50	14	<0.26	2.3	2.5	2.70	NA	NA	<0.15	<0.99	8.9	<3.0	<0.50	<3.0	13	8.2	
BG-2.0-26AUG2021		2.0	8/26/21	<3.0	1.7	35	<0.51	<0.51	13	<0.26	2.1	2.1	2.40	NA	NA	<0.16	<1.0	8.2	<3.0	<0.51	<3.0	12	7.4	
BG-4-0.5-2DEC2021		0.5	12/2/21	NA	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-4-1.0-2DEC2021		1.0	12/2/21	NA	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-4-1.5-2DEC2021		1.5	12/2/21	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-4-2.0-2DEC2021		2.0	12/2/21	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-5-0.5-2DEC2021		0.5	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-5-1.0-2DEC2021		1.0	12/2/21	NA	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-5-1.5-2DEC2021		1.5	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-5-2.0-2DEC2021		2.0	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-6-0.5-2DEC2021		0.5	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-6-1.0-2DEC2021		1.0	12/2/21	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-6-1.5-2DEC2021		1.5	12/2/21	NA	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-6-2.0-2DEC2021		2.0	12/2/21	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Regulatory Agency Comparison Criteria																								
RWQCB ESLs, Residential Property Use ⁵				11	0.067	15,000	16	78	NE ⁶	0.3	23	3100	80	NE	NE	13	390	820	390	390	0.78	390	23,000	
RWQCB ESLs, Commercial/Industrial Property Use ⁵				160	0.31	220,000	230	1100	NE	6.2	350	47,000	320	NE	NE	190	5800	11,000	5600	5800	12	5800	350,000	
USEPA RSLs, Residential Property Use ⁷				31	0.68	15,000	160	71	NE	0.3	23	3100	82	NE	NE	11	390	670	390	390	0.78	390	23,000	
USEPA RSLs, Industrial Property Use ⁷				470	3.0	220,000	2300	980	NE	6.3	350	47,000	380	NE	NE	46	5800	8100	5800	5800	12	5800	350,000	

Notes and abbreviations:

A complete copy of the analytical laboratory reports are included in Appendix A.

1. bgs = below ground surface

- 2. May 24, 2017 samples collected by Engeo, Inc., and presented in the Phase II Environmental Site Assessment, June 16, 2017
- 3. April 28, April 29, July 9 and August 26, 2021 samples collected by Vista Environmental Consulting
- 4. NA = not analyzed
- 5. RWQCB Environmental Screening Levels, Table S-1, Soil Direct Exposure Human Health Risk Screening Levels, 2019, rev. 2
- 6. NE = no level established
- 7. USEPA Regional Screening Level Summary Table, TR=1E-06, HQ = 1), May 2021

TABLE 2
Analytical Results Summary for TPH, VOCs, VOCs, Pesticides, PCBs in Soil Seaside - Campus Town Development
Former Fort Ord Army Base Seaside, California

SAMPLE LOCATION		SAMPLE DEPTH (FEET BGS1)	SAMPLE DATE	TOTAL PETROLEUM HYDROCARBONS			VOLATILE ORGANIC COMPOUNDS			SEMI-VOC		PESTICIDES										PCBS
				TPHG	TPHD	TPHMO	ACET ONE	PARA-ISOPROPOL TOLUENE	NAPHTHALENE	NAPHTHALENE	BEHP	HEPTACHLOR EPOXIDE	ENDRIN ALDEHYDE	CHLORDANE	ALPHA CHLORDANE	GAMMA CHLORDANE	DIELDREN	4,4'-DDD	4,4'-DDE	4,4'-DDT	AROCLO R 1260	
				Results are in milligrams per kilogram(mg/kg)																		
AREA 1	HARDSCAPE	0 . 5	4/29/21 ²	<3.6	<10	<20	<0.180	<0.089	0.011	<0.500	0.550	<0.005	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025	
	BUILDING 4214	0 . 5	5/24/17 ³	NA	NA	NA	NA	NA	NA	NA	NA	<0.0016	<0.003	0.0884	0.0085	0.0117	0.0101	0.0128	0.0066	0.0546	NA	
		0 . 5	4/29/21	4.7	50	140	0.850	<0.014	<0.014	<0.250	<0.250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.032	0.035	
RWQCB ESLs, Residential Property Use ⁴				430	260	12,000	61,000	NE ⁵	3.8	39	0.062	NE	0.48	NE	NE	0.037	2.7	1.8	1.9	0.23		
RWQCB ESLs, Commercial/Industrial Property Use ⁴				2000	1200	180,000	670,000	NE	17	160	0.28	NE	2.2	NE	NE	0.16	12	8.3	8.5	0.94		
USEPA RSLs, Residential Property Use ⁶				82	97	2400	61,000	NE	NE	NE	0.07	NE	1.7	36	36	0.034	1.9	2.0	1.9	0.24		
USEPA RSLs, Industrial Property Use ⁶				420	560	30,000	670,000	NE	NE	NE	0.33	NE	7.7	500	500	0.14	9.6	9.3	8.5	0.99		

Notes and abbreviations:

A complete copy of the analytical laboratory reports are included in Appendix A.

- 1. bgs = below ground surface
- 2. April 29, 2021 samples collected by Vista Environmental Consulting
- 3. May 24, 2017 samples collected by Engeo, Inc.
- 4. RWQCB Environmental Screening Levels, Table S-1, Soil Direct Exposure Human Health Risk Screening Levels, 2019, rev. 2
- 5. NE = no level established
- 6. USEPA Regional Screening Level Summary Table, TR=1E-06, HQ = 1), May 2021

**SECTION 311000
SITE CLEARING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Clearing and protection of vegetation.
- B. Removal of existing debris.

1.02 RELATED REQUIREMENTS

- A. Section 011000 - Summary: Limitations on Contractor's use of site and premises.
- B. Section 011000 - Summary: Sequencing and staging requirements.
- C. Section 015000 - Temporary Facilities and Controls: Site fences, security, protective barriers, and waste removal.
- D. Section 015713 - Temporary Erosion and Sediment Control.
- E. Section 017000 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products.
- F. Section 017419 - Construction Waste Management and Disposal: Limitations on disposal of removed materials; requirements for recycling.
- G. Section 024100 - Demolition: Removal of built elements and utilities.
- H. Section 312200 - Grading: Fill material for filling holes, pits, and excavations generated as a result of removal operations.

1.03 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Site Plan: Showing:
 - 1. Vegetation removal limits.
 - 2. Areas for temporary construction and field offices.

1.04 QUALITY ASSURANCE

- A. Clearing Firm: Company specializing in the type of work required.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Fill Material: As specified in Section 312200 - Grading

PART 3 EXECUTION

3.01 SITE CLEARING

- A. Comply with other requirements specified in Section 017000.
- B. Minimize production of dust due to clearing operations; do not use water if that will result in ice, flooding, sedimentation of public waterways or storm sewers, or other pollution.

3.02 EXISTING UTILITIES AND BUILT ELEMENTS

- A. Coordinate work with utility companies; notify before starting work and comply with their requirements; obtain required permits.
- B. Protect existing utilities to remain from damage.
- C. Do not disrupt public utilities without permit from authority having jurisdiction.
- D. Protect existing structures and other elements that are not to be removed.

3.03 VEGETATION

- A. Scope: Remove trees, shrubs, brush, and stumps.
- B. Do not remove or damage vegetation beyond the limits indicated on drawings.

- C. Install substantial, highly visible fences to prevent inadvertent damage to vegetation to remain:
 - 1. At vegetation removal limits.
 - 2. Around trees to remain within vegetation removal limits; locate no closer to tree than at the drip line.
 - 3. Around other vegetation to remain within vegetation removal limits.
 - 4. See Section 015000 for fence construction requirements.
- D. In areas where vegetation must be removed but no construction will occur other than pervious paving, remove vegetation with minimum disturbance of the subsoil.
- E. Vegetation Removed: Do not burn, bury, landfill, or leave on site, except as indicated.
 - 1. Chip, grind, crush, or shred vegetation for mulching, composting, or other purposes; preference should be given to on-site uses.
 - 2. Trees: Sell if marketable; if not, treat as specified for other vegetation removed; remove stumps and roots to depth of 18 inches.
 - 3. Existing Stumps: Treat as specified for other vegetation removed; remove stumps and roots to depth of 18 inches.
 - 4. Sod: Re-use on site if possible; otherwise sell if marketable, and if not, treat as specified for other vegetation removed.
 - 5. Fill holes left by removal of stumps and roots, using suitable fill material, with top surface neat in appearance and smooth enough not to constitute a hazard to pedestrians.
- F. Dead Wood: Remove all dead trees (standing or down), limbs, and dry brush on entire site; treat as specified for vegetation removed.
- G. Restoration: If vegetation outside removal limits or within specified protective fences is damaged or destroyed due to subsequent construction operations, replace at no cost to Owner.

3.04 DEBRIS

- A. Remove debris, junk, and trash from site.
- B. Leave site in clean condition, ready for subsequent work.
- C. Clean up spillage and wind-blown debris from public and private lands.

END OF SECTION 311000

**SECTION 312200
GRADING**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Rough grading the site.
- B. Finish grading.

1.02 RELATED REQUIREMENTS

- A. Section 311000 - Site Clearing.
- B. Section 312316 - Excavation.
- C. Section 312323 - Fill: Filling and compaction.

1.03 PRICE AND PAYMENT PROCEDURES

- A. See Section 012200 - Unit Prices, for general requirements relating to unit prices for this work.

1.04 SUBMITTALS

- A. Project Record Documents: Accurately record actual locations of utilities remaining by horizontal dimensions, elevations or inverts, and slope gradients.

1.05 QUALITY ASSURANCE

- A. Perform Work in accordance with State of California, Highway Department standards.

PART 2 PRODUCTS

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that survey bench mark and intended elevations for the Work are as indicated.
- B. Verify the absence of standing or ponding water.

3.02 PREPARATION

- A. Identify required lines, levels, contours, and datum.
- B. Stake and flag locations of known utilities.
- C. Locate, identify, and protect from damage above- and below-grade utilities to remain.
- D. Notify utility company to remove and relocate utilities.
- E. Provide temporary means and methods to remove all standing or ponding water from areas prior to grading.
- F. Protect site features to remain, including but not limited to bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs, from damage by grading equipment and vehicular traffic.

3.03 ROUGH GRADING

- A. Remove subsoil from areas to be further excavated, re-landscaped, or re-graded.
- B. Do not remove wet subsoil , unless it is subsequently processed to obtain optimum moisture content.
- C. When excavating through roots, perform work by hand and cut roots with sharp axe.
- D. See Section 312323 for filling procedures.
- E. Stability: Replace damaged or displaced subsoil to same requirements as for specified fill.
- F. Remove and replace soils deemed unsuitable by classification and which are excessively moist due to lack surface water control.

3.04 SOIL REMOVAL

- A. Stockpile excavated topsoil on site.
- B. Stockpile excavated subsoil on site.
- C. Stockpiles: Use areas designated on site; pile depth not to exceed 8 feet; protect from erosion.

3.05 FINISH GRADING

- A. Before Finish Grading:
 - 1. Verify building and trench backfilling have been inspected.
 - 2. Verify subgrade has been contoured and compacted.
- B. Remove debris, roots, branches, stones, in excess of 1/2 inch in size. Remove soil contaminated with petroleum products.
- C. In areas where vehicles or equipment have compacted soil, scarify surface to depth of 3 inches.
- D. Fine grade topsoil to eliminate uneven areas and low spots. Maintain profiles and contour of subgrade.
- E. Maintain stability of topsoil during inclement weather. Replace topsoil in areas where surface water has eroded thickness below specifications.

3.06 REPAIR AND RESTORATION

- A. Existing Facilities, Utilities, and Site Features to Remain: If damaged due to this work, repair or replace to original condition.

3.07 FIELD QUALITY CONTROL

- A. See Section 312323 for compaction density testing.

3.08 CLEANING

- A. Remove unused stockpiled topsoil and subsoil. Grade stockpile area to prevent standing water.
- B. Leave site clean and raked.

END OF SECTION 312200

**SECTION 312316
EXCAVATION**

PART 1 GENERAL

1.01 RELATED REQUIREMENTS

- A. Section 015713 - Temporary Erosion and Sediment Control: Slope protection and erosion control.
- B. Section 017000 - Execution and Closeout Requirements: Project conditions; protection of bench marks, survey control points, and existing construction to remain; reinstallation of removed products; temporary bracing and shoring. General requirements for dewatering of excavations and water control.
- C. Section 024100 - Demolition: Shoring and underpinning existing structures.
- D. Section 311000 - Site Clearing: Vegetation and existing debris removal.
- E. Section 312200 - Grading: Grading.
- F. Section 312323 - Fill: Fill materials, backfilling, and compacting.

1.02 PRICE AND PAYMENT PROCEDURES

- A. See Section 012200 - Unit Prices, for general requirements applicable to unit prices for excavation.

1.03 REFERENCE STANDARDS

- A. 29 CFR 1926 - Safety and Health Regulations for Construction Current Edition.

1.04 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Temporary Support and Excavation Protection Plan.
- C. Project Record Documents: Record drawings at project closeout according to 017000 - Execution and Closeout Requirements. Show locations of installed support materials left in place, including referenced locations and depths, on drawings.

1.05 QUALITY ASSURANCE

- A. Temporary Support and Excavation Protection Plan:
 - 1. Indicate sheeting, shoring, and bracing materials and installation required to protect excavations and adjacent structures and property.
 - 2. Bracing and shoring design to meet requirements of OSHA's Excavation Standard, 29 CFR 1926, Subpart P.
- B. Designer Qualifications: For design of temporary shoring and bracing, employ a Professional Engineer experienced in design of this type of work and licensed in the State in which the Project is located.
- C. Shoring Installer Qualifications: Company specializing in performing the shoring and bracing work of this section with minimum 5 years of documented experience.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Bedding and Fill to Correct Over-Excavation:
 - 1. See Section 312323 for bedding and corrective fill materials at general excavations.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that survey bench mark and intended elevations for the work are as indicated.
- B. Survey existing adjacent structures and improvements and establish exact elevations at fixed points to act as benchmarks.

3.02 PREPARATION

- A. Identify required lines, levels, contours, and datum locations.
- B. See Section 311000 for clearing, grubbing, and removal of existing debris.
- C. Locate, identify, and protect utilities that remain and protect from damage.
- D. Notify utility company to remove and relocate utilities.
- E. Protect bench marks, survey control points, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
- F. Grade top perimeter of excavation to prevent surface water from draining into excavation. Provide temporary means and methods, as required, to maintain surface water diversion until no longer needed, or as directed by Engineer.

3.03 TEMPORARY EXCAVATION SUPPORT AND PROTECTION

- A. Excavation Safety: Comply with OSHA's Excavation Standard, 29 CFR 1926, Subpart P.
 - 1. Excavations in stable rock or in less than 5 feet in depth in ground judged as having no cave-in potential do not require excavation support and protection systems.
 - 2. Depending upon excavation depth, time that excavation is open, soil classification, configuration and slope of excavation sidewalls, design and provide an excavation support and protection system that meets the requirements of 29 CFR 1926, Subpart P:
 - a. Sloping and benching systems.
 - b. Support systems, shield systems, and other protective systems.
- B. Excavation support and protection systems not required to remain in place may be removed subject to approval of Owner or Owner's Representative.
 - 1. Remove temporary shoring and bracing in a manner to avoid harmful disturbance to underlying soils and damage to buildings, structures, pavements, facilities and utilities.

3.04 EXCAVATING

- A. Excavate to accommodate construction operations.
 - 1. Excavate to the length and width required to safely install, adjust, and remove any forms, bracing, or supports necessary for the installation of the work.
- B. Notify Engineer of unexpected subsurface conditions and discontinue affected Work in area until notified to resume work.
- C. Do not interfere with 45 degree bearing splay of foundations.
- D. Remove lumped subsoil, boulders, and rock up to 1/3 cubic yard measured by volume. See Section 312316.26 for removal of larger material.
- E. Provide temporary means and methods, as required, to remove all water from excavations until directed by Engineer. Remove and replace soils deemed suitable by classification and which are excessively moist due to lack of dewatering or surface water control.

3.05 SUBGRADE PREPARATION

- A. See Section 312323 for subgrade preparation at general excavations.

3.06 FILLING AND BACKFILLING

- A. Do not fill or backfill until all debris, water, unsatisfactory soil materials, obstructions, and deleterious materials have been removed from excavation.
- B. See Section 312323 for fill, backfill, and compaction requirements at general excavations.
- C. See Section 312200 for rough and final grading and topsoil replacement requirements.

3.07 PROTECTION

- A. Divert surface flow from rains or water discharges from the excavation.
- B. Prevent displacement of banks and keep loose soil from falling into excavation; maintain soil stability.
- C. Protect open excavations from rainfall, runoff, freezing groundwater, or excessive drying so as to maintain foundation subgrade in satisfactory, undisturbed condition.

- D. Protect bottom of excavations and soil adjacent to and beneath foundation from freezing.
- E. Keep excavations free of standing water and completely free of water during concrete placement.

END OF SECTION 312316

**SECTION 312323
FILL**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Filling, backfilling, and compacting for construction activities.
- B. Filling holes, pits, and excavations generated as a result of removal (demolition) operations.

1.02 RELATED REQUIREMENTS

- A. Section 015713 - Temporary Erosion and Sediment Control: Slope protection and erosion control.
- B. Section 312200 - Grading: Site grading.
- C. Section 312316 - Excavation: Removal and handling of soil to be re-used.

1.03 PRICE AND PAYMENT PROCEDURES

- A. See Section 012200 - Unit Prices, for general requirements applicable to unit prices for earthwork.
- B. General Fill: Applies to Unit Price.
 - 1. Includes: Excavating existing soil, stockpiling, scarifying substrate surface, placing where required, compacting, and dewatering.

1.04 DEFINITIONS

- A. Finish Grade Elevations: Indicated on drawings.

1.05 REFERENCE STANDARDS

- A. AASHTO T 180 - Standard Specification for Moisture-Density Relations of Soils Using a 4.54-kg (10-lb) Rammer and a 457-mm (18 in.) Drop 2018.
- B. ASTM D698 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12,400 ft-lbf/ft³ (600 kN-m/m³)) 2012 (Reapproved 2021).
- C. ASTM D1557 - Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Modified Effort (56,000 ft-lbf/ft³ (2,700 kN-m/m³)) 2012 (Reapproved 2021).

1.06 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data for Manufactured Fill.
- C. Soil Samples: 10 pounds sample of each type of fill; submit in air-tight containers to testing laboratory.
- D. Materials Sources: Submit name of imported materials source.
- E. Fill Composition Test Reports: Results of laboratory tests on proposed and actual materials used, including manufactured fill.
- F. Compaction Density Test Reports.

1.07 QUALITY ASSURANCE

- A. Testing Agency Qualifications: Independent firm specializing in performing testing and inspections of the type specified in this section.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. When necessary, store materials on site in advance of need.
- B. When fill materials need to be stored on site, locate stockpiles where indicated.
 - 1. Separate differing materials with dividers or stockpile separately to prevent intermixing.

2. Prevent contamination.
3. Protect stockpiles from erosion and deterioration of materials.

PART 2 PRODUCTS

2.01 FILL MATERIALS

- A. General Fill - Fill Type: Complying with State of California Highway Department standard.

2.02 SOURCE QUALITY CONTROL

- A. Where fill materials are specified by reference to a specific standard, test and analyze samples for compliance before delivery to site.
- B. If tests indicate materials do not meet specified requirements, change material and retest.
- C. Provide materials of each type from same source throughout the Work.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that survey bench marks and intended elevations for the Work are as indicated.
- B. Identify required lines, levels, contours, and datum locations.
- C. See Section 312200 for additional requirements.
- D. Verify areas to be filled are not compromised with surface or ground water.

3.02 PREPARATION

- A. Scarify and proof roll subgrade surface to a depth of 6 inches to identify soft spots.
- B. Cut out soft areas of subgrade not capable of compaction in place. Backfill with general fill.
- C. Compact subgrade to density equal to or greater than requirements for subsequent fill material.
- D. Until ready to fill, maintain excavations and prevent loose soil from falling into excavation.

3.03 FILLING

- A. Fill to contours and elevations indicated using unfrozen materials.
- B. Employ a placement method that does not disturb or damage other work.
- C. Systematically fill to allow maximum time for natural settlement. Do not fill over porous, wet, frozen or spongy subgrade surfaces.
- D. Maintain optimum moisture content of fill materials to attain required compaction density.
- E. Slope grade away from building minimum 2 inches in 10 feet, unless noted otherwise. Make gradual grade changes. Blend slope into level areas.
- F. Correct areas that are over-excavated.
 1. Other areas: Use general fill, flush to required elevation, compacted to minimum 90 percent of maximum dry density.
- G. Compaction Density Unless Otherwise Specified or Indicated:
 1. At all locations: 90 percent of maximum dry density.
- H. Reshape and re-compact fills subjected to vehicular traffic.
- I. Maintain temporary means and methods, as required, to remove all water while fill is being placed as required, or until directed by the Engineer. Remove and replace soils deemed unsuitable by classification and which are excessively moist due to lack of dewatering or surface water control.

3.04 FILL AT SPECIFIC LOCATIONS

- A. Use general fill unless otherwise specified or indicated.

3.05 TOLERANCES

- A. Top Surface of General Filling: Plus or minus 1 inch from required elevations.

3.06 FIELD QUALITY CONTROL

- A. Soil Fill Materials:
 - 1. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D698 ("standard Proctor"), ASTM D1557 ("modified Proctor"), or AASHTO T 180.
 - 2. If tests indicate work does not meet specified requirements, remove work, replace and retest.
 - 3. Frequency of Tests: 3.

3.07 CLEANING

- A. See Section 017419 - Construction Waste Management and Disposal, for additional requirements.
- B. Remove unused stockpiled materials, leave area in a clean and neat condition. Grade stockpile area to prevent standing surface water.
- C. Leave borrow areas in a clean and neat condition. Grade to prevent standing surface water.

END OF SECTION 312323

Appendix 1. Visitor Center

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Photograph A-1



Photograph A-2



Photograph A-3



Photograph A-4



Photograph A-5



Photograph A-6



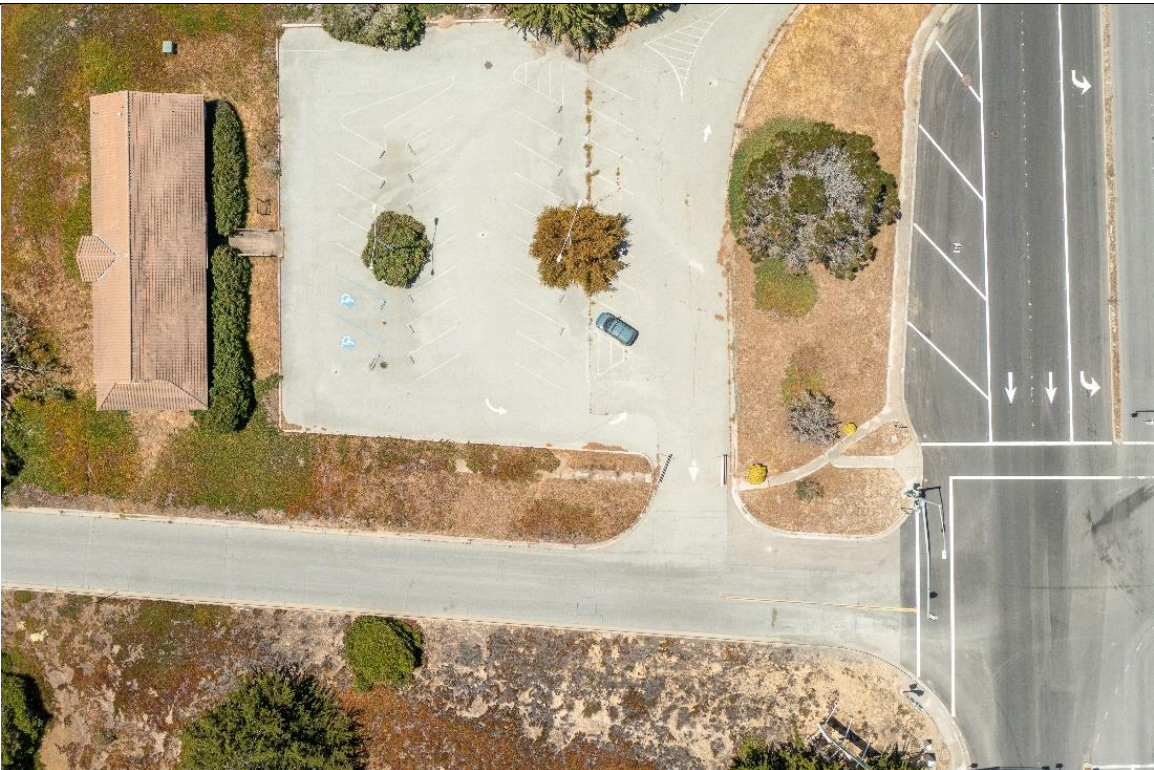
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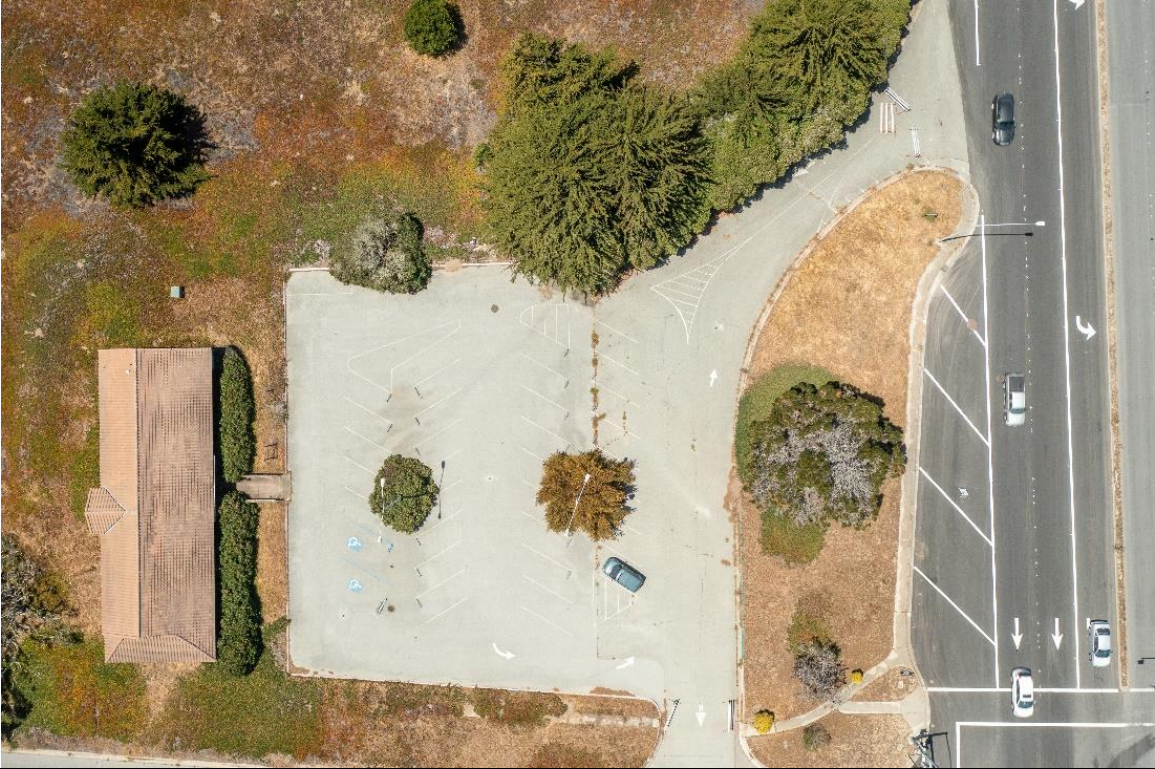
Photograph A-8



Photograph A-9



Photograph A-10



Photograph A-11



Photograph A-12



Photograph A-13



Photograph A-14



Photograph A-15



Photograph A-16



Photograph A-17



Photograph A-18



Photograph A-19



Photograph A-20



Photograph A-21



Photograph A-22



Photograph A-23



Photograph A-24



Photograph A-25



Photograph A-26



Photograph A-27



Photograph A-28



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Appendix 2
Soil Sampling Report and Soil Remediation Work
Plan Former Fort Ord - Phase 1A
Seaside, California



Prepared for:



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Seaside, CA 93955

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March 4, 2022

Project No. 211283003

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1. PHASE II ENVIRONMENTSL SITE ASSESMENT (ENGEO 2017)
2. ANALYTICAL LABORATORY REPORTS

Section 1.0 INTRODUCTION

Vista Environmental Consulting, Inc. (Vista) has prepared this Soil Sampling Report and Soil Remediation Work Plan on behalf of the City of Seaside (Owner) to document soil sampling and analysis conducted at the Phase 1A Development area, located within the larger Former Fort Ord development project area, Seaside, California (the Site, Figures 1 & 2). The following sections present the work objectives, a description of field sampling activities and methodology, presentation of the analytical results, discussion of these results and a detailed description of soil removal and disposal activities. Included with this Report is a summary of data collected by Engeo, Inc., that was memorialized in their *Phase II Environmental Site Assessment, Surplus II Areas – Fort Ord, Seaside, California*, June 16, 2017 (Engeo 2017), prepared on behalf of KB Home Bay Area Division (Appendix 1).

Section 2.0 OBJECTIVE

The objective of this document is two-fold. First, present a summary of results of multiple soil sampling and analysis programs, including the Engeo 2017 data. Second, the results of the investigations at the Site will be used to define, then describe soil removal and soil disposal activities at the Site.

Section 3.0 METHODOLOGY

Vista performed soil sampling at the Site during four separate field efforts and are described below. Field methodology for Vista soil sampling is presented in Section 3.1. The Engeo sampling and analysis program employed during their 2017 Site investigation is presented in Section 3.2. Vista field methodology is described in Section 3.3. Additional descriptions of Engeo's work, including field methodology, can be found in the Engeo 2017 report (Appendix 1).

Section 3.1 Vista 2021 Field Investigation

April 29, 2021

Surface soil sampling was conducted around buildings and beneath hardscape located at the Site. Soil samples were collected at 0.5 feet below ground surface (bgs).

July 9, 2021

Shallow soil sampling was conducted around the building and beneath hardscape located at the Site. Soil samples were collected to a maximum depth of 2.0 feet bgs.

August 26, 2021

Shallow soil sampling was conducted around the building and beneath hardscape located at the Site. Soil samples were collected to a maximum depth of 7.0 feet bgs. Background soil samples were collected from three locations away from historic Fort Ord buildings but within the larger

development project area. Background soil samples were collected at 0.5, 1.0, 1.5 and 2.0 feet bgs.

December 2, 2021

Shallow soil sampling was conducted in 4 discrete areas around the larger former Fort Ord property currently owned by the City of Seaside. The objective of the sampling was to collect soil samples in previously undisturbed areas to check for the presence of naturally occurring arsenic. The goal of this work was to generate a data set of background samples for comparison to Site concentrations of arsenic. The comparison would allow conclusions to be drawn concerning Site concentrations of arsenic versus off Site concentrations and whether on Site concentrations were due to historic Army activities at the Site.

Tables 1 and 2 presents the 2021 Vista soil data and the 2017 Engeo data. Figure 2 depict Vista sampling locations. The historic Fort Ord building number has been added to the figure and tables for reference.

Section 3.2 Engeo 2017 Field Investigation

As referenced above, Engeo performed a Phase II Environmental Site Investigation in May 2017 (Attachment 1). During this investigation Engeo performed the following work both at the Site and throughout the larger development area:

Soil Sampling Around Buildings

Engeo collected 134 soil grab samples at 0.5 feet bgs around the perimeter of 36 Site buildings. Soil samples were collected from either 3 or 4 sides of each building, depending on access and whether hardscape was present at the building edge. Discrete soil samples from around each building were composited into one sample and analyzed for:

- Arsenic and lead by USEPA Method 6020B; and
- Organochlorine pesticides by USEPA Method 8081A.

Soil Vapor Sampling

Installed 10 temporary soil gas monitoring wells for the collection of soil gas samples. Soil gas monitoring wells were installed around the three former USTs, two at each UST location and an additional four temporary soil gas monitoring well were installed in areas distributed throughout the Site. Soil gas samples were analyzed for:

- TPHg and VOCs by USEPA Method TO-15.

The Engeo 2017 soil sampling results from samples collected around the building at the Site are presented in Tables 1 and 2 of this report. The comprehensive Engeo 2017 soil and soil gas sampling results are presented in Engeo Tables B and C. Engeo 2017 sampling locations are depicted on Figure 2 and descriptions of Engeo's field methodology are included in Appendix 1.

Section 3.3 Field Methodology

Presented below is a description of the work conducted at the Site by Vista including:

- Descriptions of soil boring and sampling procedures;
- Soil sample compositing scheme; and
- A listing of the analytical laboratory testing methods conducted on soil samples.

Prior to conducting the investigation, Vista performed the following tasks:

1. Verified that a Monterey County Environmental Health Department permit was not necessary for soil borings to 8 feet bgs.
2. Contracted with Cascade Drilling of Richmond, California, a C-57 licensed drilling company, to perform the drilling work on August 26, 2021.
3. Coordinated access notifications with the City of Seaside.

Two soil boring methodologies were utilized at the Site to collect soil samples: a hand auger; and a hydraulically powered direct push drill rig.

Hand Auger

A hand auger is a manually operated, 3.25-inch diameter core drill that generates a soil core which can be observed, logged and/or sampled after the auger is removed from the borehole. The hand auger was used as the only means of soil boring during the April 29, July 9 and December 2, 2021 sampling efforts. A combination of hand auger and direct push drilling (described below) was used for soil boring advancement on August 26, 2021.

Prior to use at each boring location, the hand auger was decontaminated using a combination of water andalconox (laboratory grade cleaning detergent), a scrub brush followed by a water rinse. All decontamination water was mixed with the neat cement grout used to seal the boreholes.

Overlying vegetation and hardscape were removed wherever present at borehole locations. For sampling areas overlain by hardscape (asphalt), ground surface was defined by the contact between native soil and any baserock material placed on top of native soil and beneath the asphalt surface layer.

During augering, generated soil core was checked by Vista personnel for the presence of visual or olfactory evidence of contamination. When the desired sampling depth was achieved, recovered soil core was placed in laboratory-supplied sample containers, labeled and placed in an ice-cooled chest to await delivery to the analytical laboratory under chain of custody procedure.

Any unused soil core was used to backfill the soil boring and was nominally compacted. In hardscape areas, asphalt cold patch was placed in the final 4 to 6-inches of the soil boring to repair the hardscape surface to match its original surface grade.

Hydraulically Powered Direct Push Drill Rig

A hydraulically powered direct push drill rig equipped with dual tube drive casing was used to advance soil borings to 8.0 feet bgs on August 26, 2021. The drilling subcontractor, Cascade Drilling from Richmond, California, supplied the drill rig, operator and driller's assistant. The drilling methodology entails hydraulically pushing a 3.25-inch diameter outer drive casing fitted

with an internal 2.5-inch diameter core barrel in 4-foot increments. The internal core barrel is fitted with a 2-inch diameter, 4-foot-long acetate liner into which the soil core is collected.

At the end of each 4-foot run, the outer drive casing remained in place at the total depth of the current run and the inner core barrel was retracted and collected at the surface. This process prevents sloughing of soil from the borehole wall into the boring itself and further prevents cross-contamination of soil layers. Once at the surface, the core barrel was opened, and the inner acetate liner was removed and cut open for observation and sample collection. The core barrel was then fitted with a new acetate liner inserted prior to starting the next run. This process continued until the total desired depth was achieved. Vista field personnel observed recovered soil for visual or olfactory evidence of petroleum hydrocarbons. Any evidence of contamination was noted in the field logs.

Upon collection, the soil samples were uniquely labeled, placed in sealable bags, stored in an ice-filled chest and transported to Enthalpy Analytical, Inc. of Berkeley, California (Enthalpy), under chain-of-custody procedures. The soil samples were analyzed for the following analytes:

- CAM 17 metals using USEPA Method 6000/7000 series.

At the completion of all sampling activities, borings were filled with neat cement grout from the total boring depth to ground surface, delivered via a tremie pipe. Soil cuttings were stored in a 55-gallon steel drum with a locking cover and placed within the parking lot at Area 1 pending analytical results for proper soil disposal.

Section 4.0 RESULTS

This section presents the results of the Vista investigations conducted in 2021 and the Engeo investigation conducted in 2017. Results from the investigations were compared to the following regulatory agency comparison criteria:

- USEPA Regional Screening Levels, Summary Table, Residential and Industrial Soil, May 2021 (RSLs); and
- Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Table S-1, Soil Direct Exposure Human Health Risk Screening Levels, Residential Land Use, Shallow Soil Exposure Scenario and Commercial/Industrial Land Use, Shallow Soil Exposure, 2019, revision 2 (ESLs).

Section 4.1 Vista 2021 Investigation Results

For the four soil sampling events conducted by Vista in 2021 (April, July, August and December), all results were below residential RSLs and ESLs with the following exceptions:

1. Arsenic exceeded the residential RSL and ESL in all samples. Arsenic exceeded the commercial RSL in 1 of 12 samples.

2. Hexavalent chromium exceeded the residential RSL and ESL in 4 of 12 samples. Hexavalent chromium did not exceed the commercial RSL or ESL in all 12 samples.
3. Cobalt exceeded the residential RSL and ESL in 1 of 12 samples. Cobalt did not exceed the commercial RSL or ESL in all 12 samples.
4. Lead exceeded the residential RSL and ESL in 2 of 12 samples. Lead did not exceed the commercial RSL or ESL in all 12 samples

All laboratory analytical reports from the 4 Vista sampling efforts are included in Appendix 2.

Section 4.1.1 Vista Background Sampling Results

Vista background sampling conducted outside the area of investigation resulted in the following findings:

1. Background arsenic concentrations were commensurate with detected arsenic concentrations at Area 1.
2. An arithmetic mean concentration of Site arsenic concentration is 1.2 mg/kg
3. An arithmetic mean concentration of background arsenic concentration is 1.6 mg/kg.
4. All Site and background soil samples were above the residential RSL and ESL for arsenic.
5. When the on-Site and off-Site data sets for arsenic are compared using the Wilcoxon Rank Sum test, a simple non-parametric statistical technique, the two data sets appear equal.
6. Cobalt background concentrations were commensurate with detected Site concentrations.
7. Hexavalent chromium was not detected in any background samples.
8. All other detected metals in background samples were below residential and commercial RSLs and ESLs.

Section 4.2 Engeo 2017 Investigation Results

This section presents the Engeo 2017 investigation results for samples collected at the Site. Note that at the time the Engeo report was written, the then current RSLs and ESLs were finalized in 2015 and 2016, respectively. For the purposes of this Report, the current RSLs and ESLs were used for comparison purposes.

Section 4.2.1 Engeo 2017 Investigation Results – Soil at Building Perimeter in the Phase 1A Area

For the soil sampling around the building perimeter in Phase 1A conducted by Engeo in May of 2017, results were as follows:

1. Arsenic exceeded the residential and commercial RSL ESL in the single soil sample.
2. Lead exceeded the residential RSL and ESL in the single soil sample. Lead did not exceed the commercial RSL or ESL in the same sample.
3. Pesticides did not exceed the residential and commercial RSLs or ESLs in the single soil sample.

Section 5.0 DISCUSSION AND RECOMMENDATIONS

This section will present a discussion of the Vista and Engeo results and provide recommendations based on the results.

Section 5.1 Arsenic in Soil

In order to better understand the detection of arsenic, the following three generally accepted sources were referenced to determine if the detected concentration of arsenic fell within the expected range of detections associated with naturally occurring arsenic in the environment:

1. Duverge, Dylan Jacques, Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, Master's Thesis, December 2011 (Duverge);
2. Hansford T. Shaklette and Josephine G. Boerngen, Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270, 1984. (Shaklette); and
3. Diamond, et al, Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory, Lawrence Berkeley National Laboratory, Environmental Restoration Program, June 2002, revised April 2009. (LBNL).

For reference, the expected upper estimate concentration of naturally occurring arsenic, according to Duverge is 11.0 mg/kg with an arithmetic mean concentration of 4.23 mg/kg, Shaklette has an expected range of concentrations of <0.10 to 97 mg/kg with an arithmetic mean concentration of 7.0 mg/kg. The LBNL study states that the median concentration of naturally occurring arsenic in their study area is 4.8 mg/kg.

To summarize, between these three sources of background arsenic, the expected arithmetic mean concentrations range from 4.23 mg/kg to 11.0 mg/kg. For comparison purposes, the Site arithmetic mean concentration is 1.23 mg/kg.

As discussed in Section 3.1, background soil samples were collected from previously undisturbed areas around the City of Seaside portion of the Former Fort Ord. The results of this background soil sampling effort revealed that the arithmetic mean concentration is 1.58 mg/kg.

In order to compare the Site arsenic concentrations to background arsenic concentrations, Vista utilized the methodology outlined in the Department of Toxic Substances Control, Human and Ecological Risk Division guidance document entitled *Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities, Final Policy*, February 1997. This document outlines a process by which two data sets can be compared to see if they are statistically similar, or not, by utilizing the Wilcoxon Rank Sum Test.

A review of the Wilcoxon Rank Sum test indicates that if the mean ambient (i.e., background) concentration is higher than the mean Site concentration, the analysis is complete and there is no reason to perform additional analysis. The conclusion follows that any Site concentration of arsenic is due to background (or naturally occurring) arsenic.

Section 5.2 Hexavalent Chromium in Soil

As summarized in Section 4.1, hexavalent chromium was detected in 4 of 12 soil samples above the residential RSL and ESLs in samples collected to a maximum depth of 2 feet bgs. It is not known what the source of hexavalent chromium was or what historic Site use could have resulted in the elevated detections of hexavalent chromium. It is also not known what fill or mass grading efforts occurred prior to Seaside's ownership of the Site that could account for the detections in deeper samples. The sample locations containing elevated hexavalent chromium also appear to be evenly distributed between hardscape and building samples.

It is recommended that areas with elevated hexavalent chromium be removed via an over-excavation and soil disposal program. The over-excavation and soil disposal program is described in Section 6.0.

Section 5.3 Cobalt in Soil

As summarized in Section 4.1, cobalt was detected in 1 of 12 soil samples above the residential RSL and ESL. It is not known what the source of cobalt was or what historic Site use could have resulted in the elevated detection of cobalt. The 1 elevated detection of cobalt occurs in soil samples collected from 0.0 to 0.5 feet bgs at the hardscape area. All other detections were consistently low and within the expected range of detections of naturally occurring cobalt when compared to the references cited in Section 5.1.

It is recommended that areas with elevated cobalt be removed via an over-excavation and soil disposal program. The over-excavation and soil disposal program is described in Section 6.0.

Section 5.4 Lead in Soil

As summarized in Section 4.1, lead was detected in two of 13 soil samples above the residential RSL and ESL. The two soil samples exceeding the residential RSL and ESL were both collected from around building 4214 within Area 1 but during different sampling events. The first soil sample was collected by Engeo in 2017. The Engeo soil sample was collected from 0.5 feet bgs and contained lead at a concentration of 237 mg/kg. The second soil sample was collected by Vista in April 2021. The Vista soil sample was collected from 0.5 feet bgs and contained lead at a concentration of 180 mg/kg. All other detections were within the expected range of detections of naturally occurring lead when compared to the references cited in Section 5.1.

It is recommended that areas with elevated lead be removed via an over-excavation and soil disposal program. The over-excavation and soil disposal program is described in Section 6.0.

Copies of the laboratory analytical reports for soil samples are included as Attachment 3.

SECTION 6.0 WORK PLAN FOR SOIL OVER-EXCAVATION AND SOIL DISPOSAL

This soil over-excavation and soil disposal program has been developed to guide the removal of soil at the Site exceeding residential ESLs or RSLs. The objective is to initially remove soil down to the depth of the deepest soil sample exceeding the criteria. A description of the excavation area, confirmatory soil sampling program, soil stockpile plan, waste characterization plan and soil offhaul plan is presented below.

Section 6.1 Excavation Area

This section defines the area to be over-excavated at the hardscape area and the building area.

Section 6.1.1 Hardscape Area

As stated in Sections 5.2 and 5.3, hexavalent chromium was detected above residential ESLs and RSLs down to a maximum depth of 2 feet bgs at the hardscape area. Incidentally, cobalt was detected above residential ESLs and RSLs down to a maximum depth of 0.5 feet bgs at the hardscape area. Therefore, the initial excavation depth is to 2.0 feet bgs. The excavation area is defined as the lateral extent of the existing parking lot, up to the existing roads, including the entrance and exit roadways leading from existing roads to the parking lot. Any sidewalk or curb/gutter associated with the existing roads will remain undisturbed. It is estimated that the total area to be over-excavated is approximately 25,000 square feet.

Prior to over-excavation, the existing asphalt surface and any concrete curbs or sidewalks within the hard scape area will be broken into manageable sizes, loaded into awaiting trucks and removed from the Site. It is assumed the contractor will transport the asphalt and concrete to a recycler or to other licensed facilities that can accept construction debris.

Once hardscape elements are removed, the contractor will perform a field survey to establish the surface elevation of newly exposed soil. The results of this field survey will be memorialized in a field memo prepared by the contractor and will include a map of the area with elevations posted. Once the field survey is complete, the over-excavation process will commence. Once the total depth is reached, the depth of the initial over-excavation will be confirmed by a second field survey, also memorialized in a field memo. A comparison will be made to ensure adequate soil has been removed. When the initial depth is achieved over the entire hardscape area and the confirmatory field survey is performed, the contractor will alert the Owner or Owner's representative, who will then perform their own field check to ensure the initial over-excavation depth has been achieved. It is estimated that approximately 1,900 bank cubic yards will be generated by the initial over-excavation effort at the hardscape area.

Section 6.1.2 Building Area

As stated in Sections 5.2 and 5.4 hexavalent chromium was detected above residential ESLs and RSLs down to a maximum depth of 2 feet bgs at the hardscape area. Incidentally, lead was detected above residential ESLs and RSLs down to a maximum depth of 0.5 feet bgs at the building area. Therefore, the initial excavation depth is to 2.0 feet bgs. The excavation area is defined as the building footprint plus 2 additional feet in all 4 directions to capture the drip line of the building. It is estimated that the total area to be over-excavated is approximately 5,000 square feet.

Prior to over-excavation, the existing building will be demolished and associated concrete foundation will be broken into manageable sizes, loaded into awaiting trucks and removed from the Site. Building demolition debris will be handled under a separate document. It is assumed the contractor will transport the concrete to a recycler or to other licensed facilities that can accept construction debris.

Once the building and concrete foundation are removed, the contractor will perform a field survey to establish the surface elevation of newly exposed soil. The results of this field survey will be memorialized in a field memo prepared by the contractor and will include a map of the area with elevations posted. Once the field survey is complete, the over-excavation process will commence. Once the total depth is reached, the depth of the initial over-excavation will be confirmed by a second field survey, also memorialized in a field memo. A comparison will be made to ensure adequate soil has been removed. When the initial depth is achieved over the entire hardscape area and the confirmatory field survey is performed, the contractor will alert the Owner or Owner's representative, who will then perform their own field check to ensure the initial over-excavation depth has been achieved. It is estimated that approximately 375 bank cubic yards will be generated by the initial over-excavation effort at the building area.

Section 6.2 Confirmatory Soil Sampling Program

At the conclusion of over-excavation down to 2 feet bgs at each area, the Owner or Owner's representative will mobilize to the Site and collect confirmatory soil samples to ensure all soil exceeding residential ESLs and/or RSLs has been removed.

Section 6.2.1 Hardscape Area

Soil samples will be collected in a grid pattern over the entire extent of the over-excavation area. Given the size of the over-excavation area, 6 evenly sized quadrants will be established and a soil sample collected from within each quadrant from the newly exposed soil surface. Soil samples will be analyzed for hexavalent chromium and cobalt. A 5-day turnaround time will be requested from the lab so as to not unduly delay the contractor if additional over-excavation is necessary.

Upon receipt of analytical results from the confirmatory soil sampling program, Vista will transmit the results to the City of Seaside along with recommendations for additional over-excavation, if warranted.

If results indicate additional over-excavation is necessary, an additional 1-foot of soil will be over-excavated from the offending quadrant and added to the existing soil stockpile. This process of confirmatory soil sampling, analysis, review and recommendation for additional over-excavation will continue until all results are below residential ESLs and RSLs. Once all confirmatory soil sampling results are below residential ESLs and RSLs, the soil over-excavation process is considered complete.

Section 6.2.2 Building Area

Soil samples will be collected in a grid pattern over the entire extent of the over-excavation area. Given the size of the over-excavation area, 3 evenly sized quadrants will be established and a soil sample collected from within each quadrant from the newly exposed soil surface. Soil

samples will be analyzed for hexavalent chromium and lead. A 5-day turnaround time will be requested from the lab so as to not unduly delay the contractor if additional over-excavation is necessary.

Upon receipt of analytical results from the confirmatory soil sampling program, Vista will transmit the results to the City of Seaside along with recommendations for additional over-excavation, if warranted.

If results indicate additional over-excavation is necessary, an additional 1-foot of soil will be over-excavated from the offending quadrant and added to the existing soil stockpile. This process of confirmatory soil sampling, analysis, review and recommendation for additional over-excavation will continue until all results are below residential ESLs and RSLs. Once all confirmatory soil sampling results are below residential ESLs and RSLs, the soil over-excavation process is considered complete.

Section 6.3 Soil Stockpile Plan

During the over-excavation process at both the hardscape area and the building area, removed soil will be placed in a stockpile to be located within the excavation zone. Mixing of soil between the two excavation areas will not occur. Stockpiles will be protected to prevent generation of wind-blown dust and to prevent transport of sediment laden stormwater off of the Site.

Section 6.4 Waste Characterization Plan

Once over-excavation is complete and all confirmatory soil samples are below the residential ESLs and RSLs, the stockpiles will be sampled for waste characterization purposes. The contractor will provide the name of their selected soil disposal facility to the Owner. Assuming the Owner approves of the soil disposal facility, the Owner will then contact the facility to understand the specific analyte list and soil sampling density to satisfy the disposal facility. The Owner or Owner's representative will then mobilize to the Site to collect soil samples, as per the disposal facility requirements.

Upon receipt of analytical results, the Owner will review, then transmit the data to the contractor. The contractor will be responsible for preparing and submitting the waste profile application to the disposal facility and for obtaining any required waste manifests. The Owner will sign any required waste manifests as the generator.

Section 6.5 Soil Offhaul Plan

On the day(s) that soil will be loaded into trucks and transported to the disposal facility, the contractor will load the stockpiled soil into awaiting trucks provided by the contractor. All trucks will be tarped and loaded in such a manner that the soil surface is not visible above the sidewalls of the truck. The contractor is responsible to ensure that trackout onto adjacent public streets is controlled and that any visible trackout is removed in a timely fashion but in no case will it remain at the end of the day.

When all soil is removed, the Owner or Owner's representative will be contacted and an inspection will be performed. The inspection will ensure that no soil removed during the over-

excavation process remains at the Site. Once the Owner or Owner's representative confirms that all soil removed during the over-excavation process, the soil remediation phase of work is complete.

Report prepared for the Company by:

Jeff Austin
Senior Project Manager



Charles R. Bove
Principal

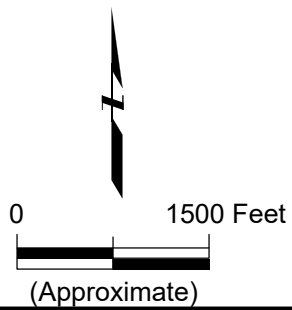


Respectfully Submitted,
Vista Environmental Consulting

FIGURE 1
SITE LOCATION MAP PHASE 1A



Image from Google Earth Pro



**VISTA ENVIRONMENTAL
CONSULTING**
2984 Teagarden Street
San Leandro, CA 94577

Figure 1
**Site Location Map
Phase 1A**
City of Seaside
Former Fort Ord

FIGURE 2
PHASE 1A SOIL SAMPLING LOCATIONS

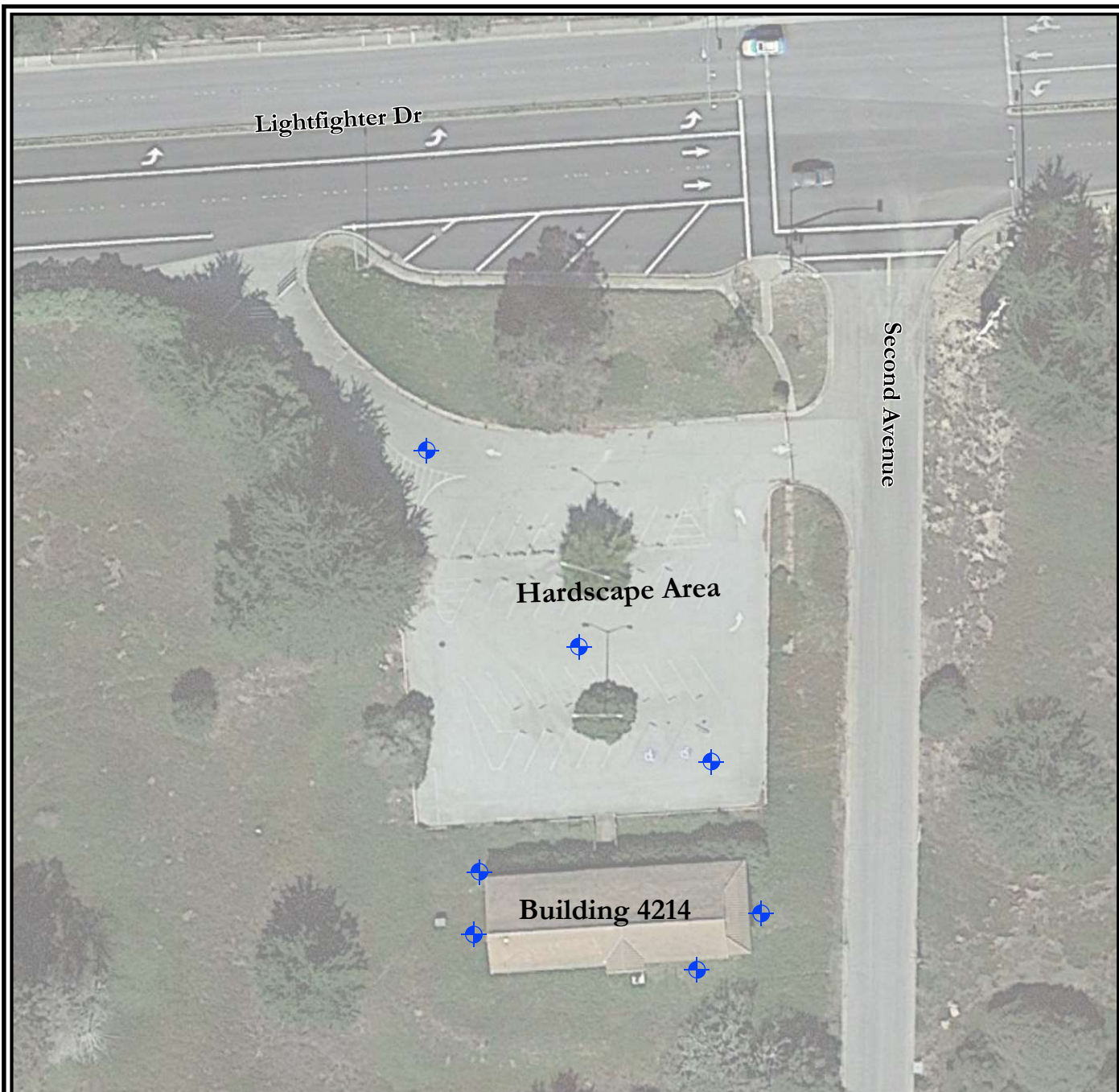


Image from Google Earth Pro

LEGEND

 Vista Soil Boring Location

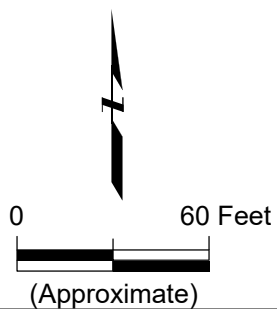


Figure 2

Phase 1A Soil Sampling Locations

City of Seaside
Former Fort Ord - Phase 1

TABLE 1
ANALYTICAL RESULTS SUMMARY FOR METALS IN SOIL

TABLE 1
Analytical Results Summary for Metals in Soil
Seaside - Campus Town Development
Former Fort Ord Army Base
Seaside, California

Sample Location		Sample Depth (feet bgs ¹)	Sample Date ^{2,3}	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	STLC Pb	TCLP Pb	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
				Results are in milligrams per kilogram(mg/kg)																			
AREA 1	HARDSCAPE	0.5	4/29/21	<3.3	1.2	21	<0.55	<0.55	13	3.6	73	3.9	1.6	NA ⁴	NA	<0.15	<1.1	13	<3.3	<0.55	<3.3	12	7.6
		1	7/9/21	<2.6	1.5	18	<0.44	<0.44	12	<0.80	1.9	4.4	2.4	NA	NA	<0.15	<0.88	9	<2.6	<0.44	<2.6	8.2	7.1
		1.5	7/9/21	<2.9	0.83	22	<0.48	<0.48	13	<0.80	1.9	2.5	2.1	NA	NA	<0.16	<0.95	9	<2.9	<0.48	<2.9	8.9	7.4
		2	7/9/21	<2.5	1.4	25	<0.42	<0.42	12	1.3	2	3	4.5	NA	NA	<0.16	<0.83	8.1	<2.5	<0.42	<2.5	9.6	9.3
		3.0	8/26/21	<2.9	1.4	30	<0.48	<0.48	13	<0.26	2.2	2.1	5.9	NA	NA	<0.16	<0.95	8.7	<2.9	<0.48	<2.9	12	8.6
		7.0	8/26/21	<3.3	1.5	31	<0.54	<0.54	15	<0.26	2.1	1.9	2.4	NA	NA	<0.15	<1.1	1.1	<3.3	<0.54	<3.3	12	8.4
	BUILDING 4214	0.5	5/24/17	NA	3.97	NA	NA	NA	NA	NA	NA	NA	237.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		0.5	4/29/21	<2.9	2.8	150	<0.49	<0.49	33	<0.80	4.2	15	180.0	5.2	0.1	0.21	<0.97	15	<2.9	<0.49	<2.9	17	190
		1	7/9/21	<2.8	2.8	55	<0.47	<0.47	19	2.8	2.4	6.5	36.0	NA	NA	<0.15	<0.94	12	<2.8	<0.47	<2.8	11	73
		1.5	7/9/21	<2.8	2.3	46	<0.46	<0.46	17	<0.80	2.4	5.6	44.0	NA	NA	<0.14	<0.93	11	<2.8	<0.46	<2.8	11	60
		2	7/9/21	<2.5	1.5	26	<0.42	<0.42	12	1.6	1.9	2.3	5.3	NA	NA	<0.15	<0.85	9.2	<2.5	<0.42	<2.5	8.7	13
		3.0	8/26/21	<2.9	1.7	19	<0.49	<0.49	14	<0.26	1.8	1.7	2.2	NA	NA	<0.15	<0.98	11	<2.9	<0.49	<2.9	9.8	7.9
		7.0	8/26/21	<3.1	1.2	21	<0.52	<0.52	12	<0.26	1.9	1.8	2.3	NA	NA	<0.15	<1.0	8.3	<3.1	<0.52	<3.1	9.8	8.5
Background Soil Samples																							
BG-0.5-26AUG2021		0.5	8/26/21	<3.0	1.4	42	<0.51	<0.51	13	<0.26	2.2	3.8	7.60	NA	NA	<0.16	<1.0	8.9	<3.0	<0.51	<3.0	12	14
BG-1.0-26AUG2021		1.0	8/26/21	<3.1	1.6	46	<0.52	<0.52	14	<0.26	2.3	2.8	3.40	NA	NA	<0.16	<1.0	9.0	<3.1	<0.52	<3.1	13	9.2
BG-1.5-26AUG2021		1.5	8/26/21	<3.0	1.7	43	<0.50	<0.50	14	<0.26	2.3	2.5	2.70	NA	NA	<0.15	<0.99	8.9	<3.0	<0.50	<3.0	13	8.2
BG-2.0-26AUG2021		2.0	8/26/21	<3.0	1.7	35	<0.51	<0.51	13	<0.26	2.1	2.1	2.40	NA	NA	<0.16	<1.0	8.2	<3.0	<0.51	<3.0	12	7.4
BG-4-0.5-2DEC2021		0.5	12/2/21	NA	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-4-1.0-2DEC2021		1.0	12/2/21	NA	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-4-1.5-2DEC2021		1.5	12/2/21	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-4-2.0-2DEC2021		2.0	12/2/21	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-5-0.5-2DEC2021		0.5	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-5-1.0-2DEC2021		1.0	12/2/21	NA	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-5-1.5-2DEC2021		1.5	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-5-2.0-2DEC2021		2.0	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-6-0.5-2DEC2021		0.5	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-6-1.0-2DEC2021		1.0	12/2/21	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-6-1.5-2DEC2021		1.5	12/2/21	NA	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
BG-6-2.0-2DEC2021		2.0	12/2/21	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Regulatory Agency Comparison Criteria																							
RWQCB ESLs, Residential Property Use ⁵				11	0.067	15,000	16	78	NE ⁶	0.3	23	3100	80	NE	NE	13	390	820	390	390	0.78	390	23,000
RWQCB ESLs, Commerical/Industrial Property Use ⁵				160	0.31	220,000	230	1100	NE	6.2	350	47,000	320	NE	NE	190	5800	11,000	5600	5800	12	5800	350,000
USEPA RSLs, Residential Property Use ⁷				31	0.68	15,000	160	71	NE	0.3	23	3100	82	NE	NE	11	390	670	390	390	0.78	390	23,000
USEPA RSLs, Industrial Property Use ⁷				470	3.0	220,000	2300	980	NE	6.3	350	47,000	380	NE	NE	46	5800	8100	5800	5800	12	5800	350,000

Notes and abbreviations:

A complete copy of the analytical laboratory reports are included in Appendix A.

- bgs = below ground surface
- May 24, 2017 samples collected by Engeo, Inc., and presented in the Phase II Enviornmental Site Assessment, June 16, 2017
- April 28, April 29, July 9 and August 26, 2021 samples collected by Vista Environmental Consulting
- NA = not analyzed
- RWQCB Environmental Screening Levels, Table S-1, Soil Directd Expopsure Human Health Risk Screening Levels, 2019, rev. 2
- NE = no level established
- USEPA Regional Screening Level Summary Table, TR=1E-06, HQ = 1), May 2021

TABLE 2
ANALYTICAL RESULTS SUMMARY FOR TPH, VOCs, SVOCs,
PESTICIDES & PCBs IN SOIL

TABLE 2
Analytical Results Summary for TPH, VOCs ,sVOCs, Pesticides, PCBs in Soil
Seaside - Campus Town Development
Former Fort Ord Army Base
Seaside, California

Sample Location		Sample Depth (feet bgs ¹)	Sample Date	Total Petroleum Hydrocarbons			Volatile Organic Compounds			Semi-VOC		Pesticides									PCBs
				TPHg	TPHd	TPHmo	acetone	para-Isopropol toluene	naphthalene	naphthalene	BEHP	Heptachlor Epoxide	endrin aldehyde	chlordane	alpha chlordane	gamma chlordane	dieldren	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aroclor 1260
				Results are in milligrams per kilogram(mg/kg)																	
AREA 1	HARDSCAPE	0.5	4/29/21 ²	<3.6	<10	<20	<0.180	<0.089	0.011	<0.500	0.550	<0.005	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025
	BUILDING 4214	0.5	5/24/17 ³	NA	NA	NA	NA	NA	NA	NA	NA	<0.0016	<0.003	0.0884	0.0085	0.0117	0.0101	0.0128	0.0066	0.0546	NA
		0.5	4/29/21	4.7	50	140	0.850	<0.014	<0.014	<0.250	<0.250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.032	0.035
RWQCB ESLs, Residential Property Use ⁴				430	260	12,000	61,000	NE ⁵	3.8	39	0.062	NE	0.48	NE	NE	0.037	2.7	1.8	1.9	0.23	
RWQCB ESLs, Commerical/Industrial Property Use ⁴				2000	1200	180,000	670,000	NE	17	160	0.28	NE	2.2	NE	NE	0.16	12	8.3	8.5	0.94	
USEPA RSLs, Residential Property Use ⁶				82	97	2400	61,000	NE	NE	NE	0.07	NE	1.7	36	36	0.034	1.9	2.0	1.9	0.24	
USEPA RSLs, Industrial Property Use ⁶				420	560	30,000	670,000	NE	NE	NE	0.33	NE	7.7	500	500	0.14	9.6	9.3	8.5	0.99	

Notes and abbreviations:

A complete copy of the analytical laboratory reports are included in Appendix A.

- 1. bgs = below ground surface
- 2. April 29, 2021 samples collected by Vista Environmental Consulting
- 3. May 24, 2017 samples collected by Engeo, Inc.
- 4. RWQCB Environmental Screening Levels, Table S-1, Soil Directd Expopsure Human Health Risk Screening Levels, 2019, rev. 2
- 5. NE = no level estalbished
- 6. USEPA Regional Screening Level Summary Table, TR=1E-06, HQ = 1), May 2021

APPENDIX 1
PHASE II ENVIRONMENTSL SITE ASSESMENT (ENGEO 2017)

Project No.
13847.000.000

June 16, 2017

Ms. Erika Salum
KB Home Bay Area Division
5000 Executive Parkway, Suite 125
San Ramon, CA 94583

Subject: Surplus II Areas – Fort Ord
Seaside, California

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Reference: ENGEO, Phase I Environmental Site Assessment, Surplus II-Fort Ord, Seaside, California, May 10, 2017.

Dear Ms. Salum:

We are pleased to submit the findings of our phase II environmental site assessment (ESA) undertaken at the subject property (Property) in Seaside, California. The purpose of the phase II ESA is to address potential environmental concerns associated with the past use of the Property.

BACKGROUND

The approximately 111-acre Property is comprised of 13 parcels identified with the following Assessor's Parcel Numbers (APN):

- 031-151-054
- 031-151-055
- 031-151-056
- 031-151-018
- 031-151-029
- 031-151-031
- 031-151-032
- 031-151-037
- 031-151-039
- 031-151-040
- 031-151-044
- 031-261-003
- 031-261-004

The Property is currently under redevelopment activities associated with the greater planned Fort Ord redevelopment plan. The former base operation within the Property included military personal living quarters with approximately 18 barracks, five administrative buildings, two armories, one cafeteria, and one gymnasium. The majority of the Property is vacant and abandoned. Most of the structures have been vandalized and left in disrepair awaiting future redevelopment activities. There are a few support services onsite, including the Presidio of Monterey Fire Department.

ENGEO conducted a phase I ESA for the Property in May 2017 (Reference). Based on the findings of the phase I ESA assessment, one current Recognized Environmental Condition (REC), one historical REC, and one controlled REC were identified for the Property.

- Previous investigations have confirmed lead-based paint and/or asbestos containing materials exist within structures that have yet to be demolished. This represents a current REC.
- The former USTs have been closed with regulatory oversight with either missing documentation or confirmation samples confirming residual, albeit relatively low concentrations of petroleum and petroleum related constituents. This represents a historic REC.
- Land use restrictions are recorded for Fort Ord that include the subject Property and represent a controlled REC.

The following potential environmental items were also identified:

- As of 2014, three monitoring wells have been depicted within the Property boundary. It appears at least one of the monitoring wells has recently been decommissioned. The Department of Water Resources On-line Water Data Library also depicts two groundwater level station wells located south of Lightfighter Drive. The status of all wells should be confirmed.
- Pesticides were routinely applied around buildings. It is conceivable that residual pesticide and pesticide-related metals exist around buildings.
- It does not appear that a soil gas/vapor intrusion assessment has been performed for the previous underground storage tank areas and should be considered.
- According to FOST 6, UST 4430.1 and 4440.1 (Building 4430 and 4440) were closed in place in 1992. If the tanks remain, the tanks should be properly removed and disposed of with agency oversight.
- Given the land use, it is conceivable that buried items (septic tanks, debris, burnpits, etc.) could be encountered during future subsurface activities.

A phase II environmental assessment along with supplemental documentation review was recommended to address potential environmental concerns associated with the Property.

SCOPE OF FIELD EXPLORATION

Field sampling activities associated with the phase II ESA were performed on May 24, 25, 31 and June 1, 2017. Prior to drilling, an ENGEO representative contacted USA North Service Alert for identification of underground utilities at the Property. Boring permits were obtained from Monterey County Health Department Division of Environmental Health. Soil samples at each sampling location were collected on a continuous basis for classification. During drilling, the soil cores were screened for volatile organic compounds (VOCs) using a photoionization detector (PID).

The scope of the field exploration included soil and soil gas sampling. Details pertaining to each of these tasks are presented below.

PHASE II ESA EXPLORATION AND SERVICES

Task 1 – Soil Assessment

A soil sampling study was performed to address potential subsurface impairments associated with the historical uses of the Property, with focus around buildings and former underground storage tanks.

Hand sampling equipment including shovels and trowels were utilized for collecting soil samples around former buildings. Soil samples were collected in laboratory provided jars. In addition, a Geoprobe® truck-mounted rig was used to facilitate sample collection around the former USTs (S-1, S-2, and S-3). Soil samples were retrieved within continuous Geoprobe acetate core liners measuring 4 feet in length. Specific soil samples were collected for laboratory analysis by cutting a 6- to 12-inch portion of the Geoprobe soil core liners from the desired sample depth.

Following recovery, the sample liners were sealed using Teflon® sheets secured by tight-fitting plastic end caps and duct tape. Upon collection, a label was placed on the sample that included a unique sample number, sample location, time/date collected, laboratory analysis and the sampler's identification. The soil samples were placed in an ice-cooled chest and submitted under documented chain-of-custody to Torrent Laboratory, Inc., a State-certified laboratory in Milpitas, California.

Task 1a - Soil Characterization: Residual Pesticide and Pesticide-Related Metals

A near-surface sampling study was performed to address potential soil impairments associated with potential application of pesticide and pesticide-related metals around buildings as part of routine building maintenance.

Soil samples were collected from each building from 0- to 6-inches below existing grade and within 10 feet of the building foundation. Typically, four soil samples were collected from each building, except in scenarios where hardscape existed such as sidewalks or parking areas. A total of 134 soil samples were collected.

The laboratory was instructed to composite the four soil samples into one sample per building before analyzing. The submitted soil samples were analyzed for organochlorine pesticides (OCPs- EPA 8081A), total arsenic (EPA 6020B), and select samples for total lead (EPA 6020B).

Vista Environmental Consulting (Vista) completed a Site Soil Background Survey (March 4, 2016) for Fort Ord Reuse Authority (FOR A) that included lead laboratory testing; however, several buildings were not included within Vista's survey and as a result, ENGEO analyzed several select samples/buildings for total lead (EPA 6020B).

Task 1b - Soil Characterization: Former Underground Storage Tank Areas

The objective of Task 1b was to address potential subsurface impairments associated with the three former UST areas identified within the Property. A total of three soil borings were advanced across the Property; one at each of the former UST areas (S-1, S-2 and S-3). Soil samples were generally collected at approximate depths of 5, 10, 15 and 20 feet below ground surface. The shallow soil samples were submitted for laboratory analysis. The deeper samples were held pending laboratory analysis of shallow samples. It should be noted, that given drilling

limitations, S-1 was collected approximately 5 feet horizontally from the UST location on a slope that was approximately 5 feet higher in elevation.

Continuous soil cores were retrieved to an approximate depth of 20 to 25 feet below ground surface. During drilling soil was screened for visual and olfactory evidence of impact. In addition, a PID was utilized to further evaluate soil conditions. No physical indications of contamination or elevated PIDs readings were observed.

The soil samples were submitted to Torrent Laboratory, Inc., a State-certified fixed laboratory based in Milpitas, California for analysis of TPH-g and volatile organic compounds (VOCs) (EPA Method 8260), total petroleum hydrocarbons as diesel (TPH-d), and total petroleum hydrocarbons as motor-oil (TPH-mo) (EPA Method 8015 with silica gel cleanup).

Task 2 - Soil Gas Assessment

In order to evaluate potential vapor intrusion concerns, a soil gas assessment was performed. Ten temporary soil gas monitoring wells were installed at the Property and sampled on May 31 and June 1, 2017. The soil gas well locations are presented on Figure 2.

The installation and sampling of the soil gas monitoring wells were performed in accordance with the Department of Toxic Substances Control (DTSC) Final Advisory Active Soil Gas Investigations (July 2015). The soil gas monitoring well casings were constructed with ¼-inch-diameter Teflon tubing equipped with a filter at the base of the tubing. The well installation was performed with a direct push probe rig, which advanced an approximately 2-inch-diameter boring to a depth of 6 feet below the ground surface. The bottom of the well casing was equipped with a filter situated at a depth of approximately 5.5 feet below the ground surface, centered in the middle of a 1-foot-layer of No. 3 sand. One foot of dry bentonite was installed on top of the sand, and the remaining annular space was filled with hydrated bentonite grout to the surface.

Following installation of the annular seal, the well casings were equipped with a permanent Swagelok® ferrule and nut. A threaded plug was then screwed into the nut and the mandatory two-hour equilibration time began. The sample train was connected to the well tubing by threading the permanent Swagelok® fitting on the well casing onto the manifold. The sample train consisted of a stainless steel twin summa manifold with a built-in flow controller set to 100 to 200 milliliters per minute (ml/min). A purge vacuum pump was attached to the manifold connection closest to the well casing and the sample canister was connected to the manifold fitting furthest away from the well casing. Prior to connecting the sample train to the well casing, a shut-in test was performed to assess for potential leaks. The shut-in test consisted of capping the end of the manifold, then applying a vacuum with the vacuum pump, closing the purge valve, and observing the vacuum gauge for two minutes to check for a drop in the vacuum. Once the sample train was connected to the well casing, all of the valves were closed, allowing a mandatory two-hour equilibration time to commence. After the two-hour equilibration time elapsed, three well volumes were purged from the wells. After purging was completed, the purge valve on the manifold was closed, and the vacuum pump was removed and connected to another well. Samples were collected by opening the sample canister valve and allowing the sample canister to extract soil gas until the vacuum in the sample canister reached approximately 5 inches of mercury. The leak detection compound 1,1-difluoroethane (1,1-DFA) was applied by wrapping a doused rag around the manifold fittings during sample collection.

Each sample canister was labeled with a unique identification number, sampling time and pre- and post-sample vacuum readings. The ten soil gas samples were submitted to Torrent Laboratory, Inc., a State-certified fixed laboratory, under documented chain-of-custody for analysis of VOCs, including TPH-gasoline and naphthalene, by EPA Test Method TO-15.

Task 3 – Supplemental Documentation Review

In order to further evaluate potential environmental and/or developmental concerns, supplemental documentation review of publically available information was performed.

Status of Onsite Wells

Based on our discussion with the lead regulatory agency case officer, Mr. Grant Himebaugh (RWQCB), as well as with Mr. Jeff Fenton (Amec Foster Wheeler) who performed the last round of well monitoring, both confirmed the previous monitoring wells have been properly destroyed.

We also confirmed with Monterey Peninsula Water Management District (MPWMD) that MPWMD owns and operates a well within the parcel south of Lightfighter Drive and the well is to remain. See Figure 2 for approximate location.

Potential Presence of Former USTs Closed In Place

Documents reviewed during the referenced Phase I ESA were conflicting in that some documents indicated that two former USTs (4430.1 and 4440.1) were closed in place and some documents indicated the USTs were removed. Our recent subsurface drilling exploration did not encounter a former underground storage tank (UST) or UST-related items. We also had further discussions with the City of Seaside, Monterey County Environmental Health Bureau, and BAREC representatives who believe that all former tanks have been removed. While formal UST removal documentation does not appear to exist, it appears unlikely that USTs 4430.1 and 4440.1 remain in place. If desired, supplemental exploration excavation around the former USTs could provide additional insight.

ANALYTICAL RESULTS

Soil Sampling

Task 1a - Residual Pesticide and Pesticide-Related Metals

Organochlorine pesticides were mostly reported as non-detectable and below applicable residential screening levels, with the exception of five samples that reported elevated dieldrin. Dieldrin ranged from 1.09 to 99.2 micrograms per kilogram ($\mu\text{g}/\text{kg}$) which is above conservative Regional Screening Levels (RSLs) established by the United States Environmental Protection Agency (USEPA) Region IX for residential land use¹ and Environmental Screening Levels (ESLs) established by Regional Water Quality Control Board². However, the reported concentrations are below applicable commercial use ESLs.

Arsenic ranged from 1.11 milligrams per kilogram (mg/kg) to 3.97 mg/kg . The reported arsenic concentrations exceed the current residential RSL and ESL; however, these concentrations are

¹ Regional Screening Levels, residential soil, USEPA Region IX, May 2016.

² Environmental Screening Levels residential and commercial, RWQCB, February 2016, Rev 3.

consistent with background soil concentrations found in this region of the State of California³. CAL-EPA do not require remedial actions for arsenic consistent with background concentrations, or typically below 11 mg/kg.

Lead ranged from 4.04 mg/kg to 22.6 mg/kg with one maximum concentration of 237 mg/kg. While the 237 mg/kg concentration exceeds conservative residential screening level of 80 mg/kg, it does not exceed applicable ESL for commercial use of 320 mg/kg.

A summary of the soil sample analytical results is presented in Table A. The laboratory results are presented in their entirety in Appendix A.

Task 1b - Former Underground Storage Tank Areas

Soil samples reported non-detectable concentrations of VOCs, TPH-g and TPH-mo. De minimis concentrations of TPH-d were reported with a maximum concentration of 3.14 mg/kg, which is well below both RSLs and ESLs for residential use, 96 mg/kg and 230 mg/kg, respectively.

A summary of the soil sample analytical results is presented in Table B. The laboratory results are presented in their entirety in Appendix A.

Soil Gas Sampling

Several low-level potential target analytes (including acetone, benzene, toluene, TPH-g, etc) were detected in soil gas samples. The leak check compound 1,1-DFA was not detected in any of the samples.

We compared the detected soil gas concentrations to both the USEPA's RSLs established for residential air⁴ and to the modified screening levels for volatile compounds in ambient air established by the California Department of Toxic Substances Control.⁵ The reported concentrations were below the corresponding screening levels. One exception is sample location SG-10 that reported ethyl benzene at 1,600 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

A summary of the soil gas analytical results is presented in Table C. The laboratory results are presented in their entirety in Appendix A.

DISCUSSION AND CONCLUSION

Soil Sampling

Review of the laboratory test results found elevated concentrations of dieldrin or lead at six locations (Buildings 4214, 4419, 4432, 4438, 4550, and 4560) above conservative residential screening levels (RSLs and ESLs), but below applicable commercial use ESLs. The soil could be excavated and disposed offsite or alternatively excavated and reused at a commercial site.

³ Bradford, G.R., A.C. Chang, A.L. Page, D. Bakhtar, J.A. Frampton, and H. Wright; Background Concentrations of Trace and Major elements in California Soils; Kearney Foundation of Soil Science, Division of Agriculture and Natural resources, University of California; March 1996.

⁴ EPA Region 9 Regional Screening Levels (RSLs) for indoor air (May 2016) with an attenuation factor of 0.001 for future residential land use.

⁵ DTSC Modified Screening Levels for Volatile Compounds in Ambient Air (September 2015) with an attenuation factor of 0.001 for future residential land use.

With the exception of the six identified buildings, the Property does not appear to have been significantly impacted by the past pesticide building maintenance practices.

Drilling activities around former UST areas included collecting continuous soil cores to an approximate depth of 20 to 25 feet below ground surface. During drilling, soil was screened for visual and olfactory evidence of impact and in addition, a PID was utilized to further evaluate soil conditions. No signs of contamination or elevated PIDs readings were observed. Laboratory results reported non-detectable to very low concentrations that are below applicable residential RSLs and ESLs. Residual soil impact does not appear to exist around the three identified former UST areas.

Soil Gas Sampling

Several VOC and TPH-g analytes were detected in the soil gas samples collected from the Property; however, the reported concentrations are below respective screening levels with the exception of ethyl benzene in one location, SG-10, See Figure 2. SG-10 is located south of Building 4440, near Gigling Road and Seventh Avenue. The soil gas location is also approximately 75 feet south of the former UST (4440.1); however, the anomalous soil gas detection is unlikely related to the former UST based on closure documentation, site lithology, and the recent soil sampling completed this round. It is more likely related to a localized outlier condition and subsequent sampling with laboratory analysis should be performed to characterize the area. For conservative preliminary planning purposes, a vapor intrusion mitigation system (VIMS) could be installed for the area around SG-10. However, it is our professional opinion that the ethyl benzene exceedance is likely isolated, which could be confirmed with additional sampling and analysis to further evaluate potential health risks. Based on the analytical results, vapor intrusion would not be considered a concern for the proposed redevelopment of the Property, with the possible exception of the area around SG-10.

CLOSING

Based on the referenced Phase I ESA, this Phase II ESA, and previous work performed by others, there does not appear to be any significant environmental constraints for redevelopment. ENGEO recommends the following:

- Mitigate elevated dieldrin and lead in soil around six identified buildings. The soil concentrations are above residential land use, but below commercial land use screening levels. Mitigation could include excavation and offsite disposal, or excavation and re-use on commercial land.
- Investigate the anomalous soil gas detection around SG-10 to determine appropriate mitigation options including risk-based evaluation, installing a VIMS system, or excavation and offsite disposal.

Consistent with our Phase I ESA recommendations, ENGEO has three subsequent recommendations:

- A summary letter describing the removal activities performed and determination that no further action is needed associated with the lead-based paint and asbestos containing material be provided for KB Home Bay Area Division for review.

- To increase confidence that the former USTs have been removed, perform additional exploration excavation around the former UST areas. In the event tanks remain, the tanks should be properly removed and disposed of with agency oversight.
- Prior to future grading activities, prepare a Site Management Plan (SMP) in the event debris or impacted items are encountered during subsurface activities. If a SMP already exists for the area and covers anticipated activities, a new SMP would not need to be created.

It is our professional opinion that the Property is suitable for residential and commercial redevelopment.

If you have any questions regarding this report, please contact us.

Sincerely,

ENGEO Incorporated



Scott Johns, PE



Shawn Munger, CHG

sj/sm/cjn

Attachments: Figures 1 and 2
Tables A, B and C
Appendix A – Laboratory Analysis Report

FIGURES

Figure 1 – Vicinity Map

Figure 2 – Sample Locations



BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE



VICINITY MAP
FORT ORD SURPLUS II AREAS
SEASIDE, CALIFORNIA

PROJECT NO.: 13847.000.000

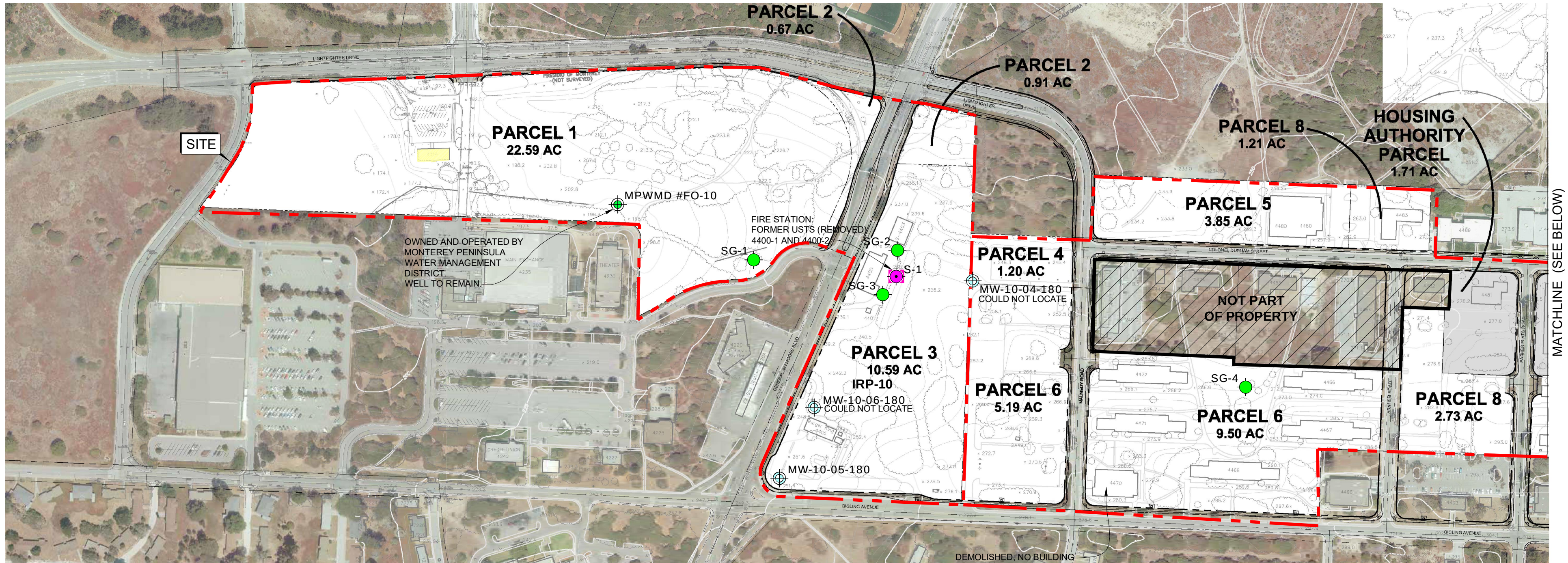
SCALE: AS SHOWN

DRAWN BY: GLJ

CHECKED BY: SPM

FIGURE NO.

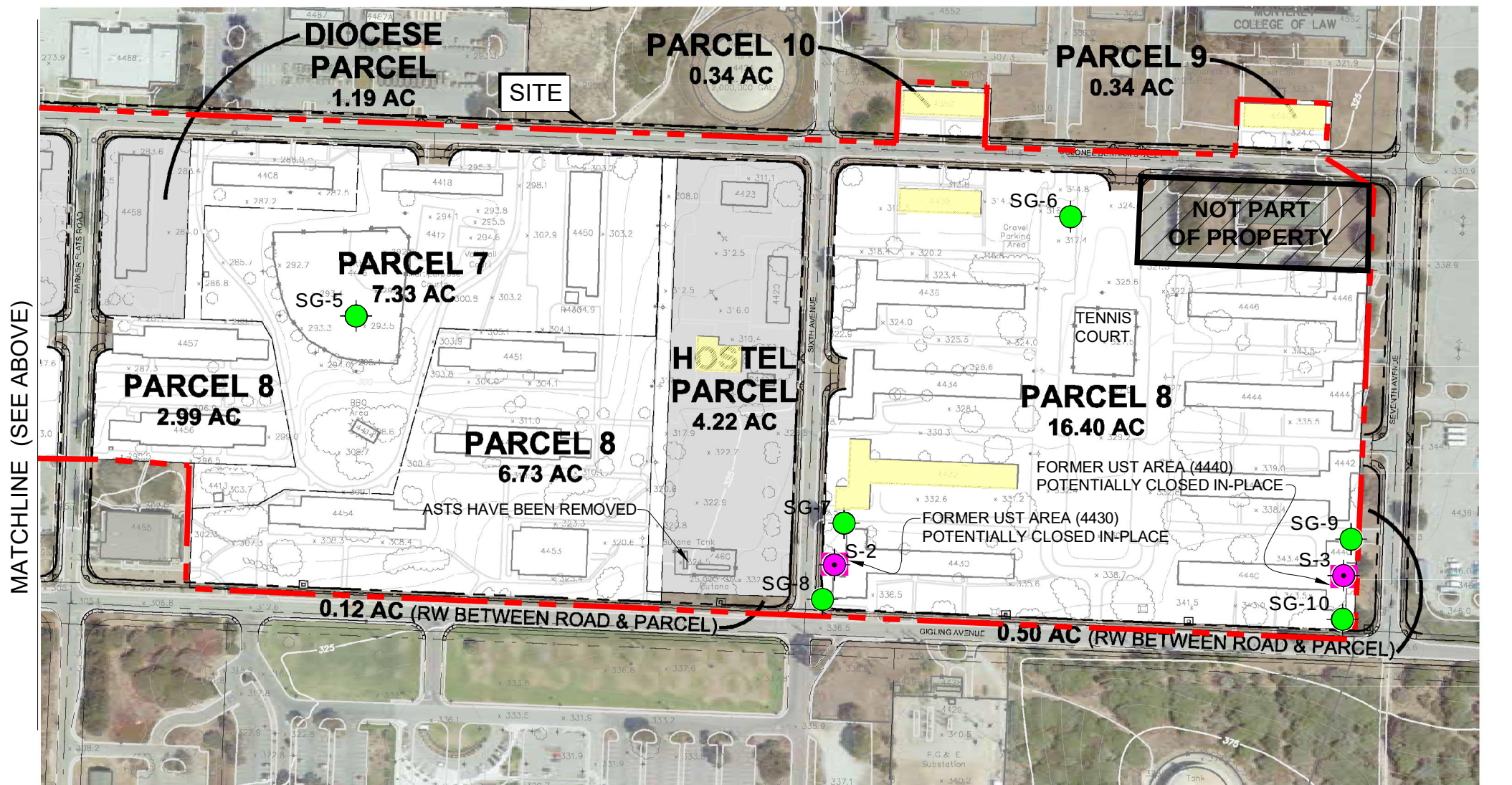
1



LEGEND

- CENTER LINE
- FACE OF CURB
- SIDEWALK
- RIGHT-OF-WAY
- (EX) PARCEL BOUNDARY
- (EX) TRANSMISSION TOWER
- DEVELOPMENT AREA
- POTENTIAL DEVELOPMENT AREA

PARCEL SIZE			
SURPLUS II			
SEASIDE, CALIFORNIA			
Parcel Number	Size per APN Map (Acres)(1)	Gross Size (Acres)(1)(3)	Developable Area per Constraints Exhibit (Acres)(2)
1	22.52	22.52	22.59
2	2.835	2.835	1.58
3	11.28	11.28	10.59
4	1.23	1.23	1.20
5	3.811	3.81	3.85
6	16.24	16.23	14.69
7	7.49	7.35	7.33
8	38.39(3)	38.39	30.06
9	0.336	0.336	0.34
10	0.336	0.336	0.34
Total	104.458	104.317	92.57
POTENTIAL ADDITIONAL PARCELS			
Parcel Owner	Size per APN Map (Acres)(1)	Gross Size (Acres)(1)(3)	Developable Area per Constraints Exhibit (Acres)(2)
Diocese	1.16	1.16	1.19
Hostel	4.654	4.17	4.22
Housing Authority	1.678	1.678	1.71
Total	7.492	7.008	7.12
Grand Total	111.95	111.325	99.69
NOTES:			
1) Inclusive of Street Rights-of-Way			
2) Exclusive of Street Rights-of-Way			
3) Calculated from boundary drawing prepared by RJA due to discrepancies on the APN Map			



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE
MW-10-06-180

- ABANDONED MONITORING WELL
- MONITORING WELL
- MPWMD #FO-10
- SG-10
- S-3
- SG-10
- S-3
- SG-10
- S-3

- BUILDING WITH ELEVATED LEAD OR DIELDRIN ABOVE RESIDENTIAL LEVELS BUT BELOW COMMERCIAL LEVELS
- FORMER UNDERGROUND STORAGE TANK

BASE MAP SOURCE: RJA, JULY 2016



SAMPLE LOCATIONS
FORT ORD SURPLUS II AREAS
SEASIDE, CALIFORNIA

PROJECT NO.: 13847.000.000
SCALE: AS SHOWN
DRAWN BY: GLJ
CHECKED BY: SPM

FIGURE NO.
2

TABLES

Table A - Summary of Soil around Buildings Analytical Data
Table B - Summary of Soil around Former USTs Analytical Data
Table C - Summary of Soil Gas Analytical Data

TABLE A
Laboratory Results Summary - Soil Around Buildings

SAMPLE	DEPTH (feet)	DATE	METALS		ORGANOCHLORINE PESTICIDES										
			Arsenic*	Lead	4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane	gamma-Chlordane	alpha-Chlordane	Dieldrin	Endrin Aldehyde	Heptachlor Epoxide	Heptachlor	OTHER OCPs
			mg/Kg	mg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	
4454-N,E,S,W-comp	0-0.5	5/24/2017	2.04	N/A	ND	5.94	ND	ND	ND	ND	ND	9.04	ND	ND	ND
4214-N,E,S,W-comp	0-0.5	5/24/2017	3.97	237	12.8	6.58	54.6	88.4	11.7	8.5	10.1	ND	ND	ND	ND
4400-S,W-comp	0-0.5	5/24/2017	1.37	22.6	ND	29.9	42.8	65.3	4.71	4.92	8.38	ND	ND	ND	ND
4405-N,E,W-comp	0-0.5	5/24/2017	2.5	6.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4408-N,E,S,W-comp	0-0.5	5/24/2017	1.86	N/A	ND	ND	ND	ND	ND	ND	16.5	ND	ND	ND	ND
4418-N,E,S,W-comp	0-0.5	5/24/2017	1.59	N/A	ND	ND	ND	ND	ND	ND	19.3	ND	ND	ND	ND
4419-N,S,W COMP	0-0.5	5/24/2017	1.27	11.1	ND	ND	ND	106	10.5	12.1	69.6	ND	ND	ND	ND
4420-N,E,S,W-comp	0-0.5	5/24/2017	1.64	13.2	ND	ND	ND	ND	ND	ND	16.2	ND	ND	ND	ND
4421-N,E,S,W-comp	0-0.5	5/24/2017	2.31	13.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4423-N,E,S,W-comp	0-0.5	5/24/2017	2.24	15.1	ND	8.02	ND	ND	ND	ND	7.16	ND	ND	ND	ND
4430-N,E,S,W COMP	0-0.5	5/25/2017	1.14	N/A	ND	3.25	5.93	ND	ND	ND	27.8	ND	ND	ND	ND
4432-N,E,S,W COMP	0-0.5	5/25/2017	1.78	N/A	ND	2.07	4.96	327	37.5	39.8	37.0	ND	1.26	ND	ND
4434-N,E,S,W COMP	0-0.5	5/25/2017	1.40	N/A	ND	6.38	9.13	ND	ND	ND	20.5	ND	ND	ND	ND
4436-N,E,S,W COMP	0-0.5	5/25/2017	1.11	N/A	ND	ND	ND	ND	ND	ND	10.1	ND	ND	ND	ND
4438-N,E,S,W COMP	0-0.5	5/25/2017	1.59	N/A	ND	ND	ND	ND	ND	ND	67.5	ND	ND	ND	ND
4440-N,E,S,W COMP	0-0.5	5/25/2017	1.42	N/A	ND	ND	ND	ND	ND	ND	8.91	ND	ND	ND	ND
4442-N,E,S,W COMP	0-0.5	5/25/2017	1.52	N/A	ND	ND	ND	ND	ND	ND	14.5	ND	ND	ND	ND
4444-N,E,S,W COMP	0-0.5	5/25/2017	2.01	N/A	ND	3.35	ND	ND	ND	ND	17.3	ND	ND	ND	ND
4446-N,E,S,W COMP	0-0.5	5/25/2017	1.44	N/A	ND	ND	5.18	ND	ND	ND	23.5	ND	ND	ND	ND
4450-N,E-comp	0-0.5	5/24/2017	3.08	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.76	ND
4451-N,E,S,W-comp	0-0.5	5/24/2017	2.84	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4452-N,E,S,W-comp	0-0.5	5/24/2017	2.45	N/A	ND	1.54	ND	ND	ND	ND	ND	ND	ND	ND	ND
4453-N,S,W-comp	0-0.5	5/24/2017	2.26	N/A	ND	2.71	ND	ND	ND	ND	1.09	ND	ND	ND	ND
4456-N,E,S,W-comp	0-0.5	5/24/2017	1.85	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4457-N,E,S,W-comp	0-0.5	5/24/2017	2.97	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4458-N,S,W-comp	0-0.5	5/24/2017	2.24	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4466-N,E,S,W-comp	0-0.5	5/24/2017	2.14	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4467-N,E,S,W-comp	0-0.5	5/24/2017	2.92	N/A	ND	1.60	ND	ND	ND	ND	1.78	ND	ND	ND	ND
4469-N,E,S,W COMP	0-0.5	5/24/2017	2.62	N/A	ND	1.50	ND	ND	ND	ND	1.38	ND	ND	ND	ND
4471-N,E,S,W COMP	0-0.5	5/24/2017	2.83	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4472-N,E,S,W COMP	0-0.5	5/24/2017	2.44	N/A	ND	ND	ND	ND	ND	ND	4.89	ND	ND	ND	ND
4480-N,E,S,W-comp	0-0.5	5/24/2017	3.2	5.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4481-N,E,S COMP	0-0.5	5/24/2017	1.83	4.04	ND	3.72	ND	ND	ND	ND	3.46	ND	ND	ND	ND
4483-N,E,S,W COMP	0-0.5	5/24/2017	1.19	6.48	ND	3.71	ND	ND	ND	ND	ND	3.00	ND	ND	ND
4550-N,E,S,W COMP	0-0.5	5/24/2017	1.38	N/A	ND	11.0	13.7	ND	ND	ND	99.2	ND	ND	ND	ND
4560-N,E,S,W COMP	0-0.5	5/25/2017	1.27	N/A	ND	ND	5.27	ND	ND	ND	54.6	ND	ND	ND	ND
RSL - EPA Region IX Regional Screening Levels for Residential Soil (May 2016)			0.68	400	2,300	2,000	1,900	1,700	NR	NR	34	NR	70	130	NR
ESL (Soil Summary, Residential; Feb 2016 Rev 3) - RWQCB			0.067	80	2700	1900	1900	480	NR	NR	38	NR	67	140	NR
ESL (Soil Summary, Commercial; Feb 2016 Rev 3) - RWQCB			0.31	320	12000	8500	8500	2200	NR	NR	170	NR	300	600	NR

* Concentrations are within background levels (12 mg/kg)
NR - Not Reported
N/A - Not Analyzed
ND - Not detected above laboratory reporting limit
mg/Kg=Milligrams per Kilogram
µg/Kg=Micrograms per Kilogram

TABLE B
Laboratory Results Summary - Soil Around Former USTs

SAMPLE	DEPTH (FT)	DATE	VOCs µg/Kg	Total Petroleum Hydrocarbons		
				GASOLINE	DIESEL	MOTOR OIL
				µg/Kg	mg/Kg	mg/Kg
S1	10	5/31/2017	ND	ND	ND	ND
S2	5	5/31/2017	ND	ND	2.56	ND
S3	5	5/31/2017	ND	ND	3.14	ND
RSL - EPA Region 9 Regional Screening Levels for Residential Soil (				82	96	2,500
ESL (Tier 1; Feb 2016 Rev 3) - RWQCB				100	230	5,100

ND - Not detected above laboratory reporting limit

mg/Kg=Milligrams per Kilogram

µg/Kg=Micrograms per Kilogram

TABLE C
Laboratory Results Summary - Soil Gas

Sample ID	Sample Date	VOCs																				TPH		
		Benzene	Acetone	Carbon disulfide	Carbon Tetrachloride	Naphthalene	Toulene	Hexane	4-Methyl-2-Pentanone (MIBK)	2-Butanone (MEK)	4-Ethyl Toluene	Ethyl acetate	Ethyl benzene	Tert-Butanol	Tetrahydrofuran	2-Hexanone	2-Propanol (Isopropyl Alcohol)	Total Xylene (-p, -m, -o)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	Chloroform	Other VOCs	TPH-Gasoline
		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
SG-1	6/1/2017	<2.6	35	<2.2	<6.5	<7.5	6	<2.7	<4.4	4	<3.2	<2.8	<3.7	<3.6	<2.6	11	<7.5	21	<3.5	<1.8	13	<5.7	ND	298
SG-2	5/31/2017	6	110	3	<4.0	<4.6	12	8	6	21	3	4	4	13	4	13	<4.6	24	3	1	14	17	ND	327
SG-3	5/31/2017	3	66	<1.6	7	<2.6	8	<1.8	6	13	3	<1.8	3	15	<1.5	7	<12	22	<2.5	<2.5	13	19	ND	615
SG-4	6/1/2017	<1.6	23	<1.6	<3.1	3	2	<1.8	<2.1	4	<2.5	<1.8	<2.2	2	<1.5	2	<12	5	<2.5	<2.5	6	<2.4	ND	224
SG-5	6/1/2017	<1.6	340	<1.6	<3.1	<2.6	26	<1.8	2	4	14	<1.8	220	12	3	<2.1	<12	1640	15	6	13	3	ND	1,580
SG-6	6/1/2017	<1.6	250	<1.6	<3.1	<2.6	7	<1.8	5	49	28	<1.8	26	190	240	13	<12	204	25	9	15	<2.4	ND	771
SG-7	6/1/2017	<1.6	45	<1.6	<3.1	<2.6	3	<1.8	<2.1	6	<2.5	<1.8	21	7	2	2	<12	174	<2.5	<2.5	9	<2.4	ND	363
SG-8	6/1/2017	<1.6	52	3	<3.1	<2.6	4	<1.8	3	8	<2.5	<1.8	13	10	1.7	4	<12	96	<2.5	<2.5	12	<2.4	ND	275
SG-9	6/1/2017	<1.6	29	<1.6	<3.1	<2.6	3	<1.8	2	5	<2.5	<1.8	23	5	<1.5	3	<12	186	<2.5	<2.5	11	<2.4	ND	289
SG-10	6/1/2017	14	2900	12	<3.1	<2.6	73	19	96	23	<2.5	<1.8	1600	15	<1.5	16	26	9800	34	10	6	<2.4	ND	16,000
DTSC Modified Screening Levels, Residential; September 2015 with an attenuation factor of 0.001 for future residential land use.		97	NR	NR	67	NR	3.10E+05	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	4.20E+04	1.20E+05	NR	---	NR
RSL - EPA Region 9 Regional Screening Levels for Indoor Air (May 2016) with an attenuation factor of 0.001 for future residential land use.		360	32,000,000	730,000	470	83	5,200,000	730,000	3,100,000	5,200,000	NR	73,000	1,100	NR	2,100,000	31,000	210,000	100,000	7,300	NR	NR	120	---	31,000

ND - Not detected above laboratory reporting limit
µg/m3 - Micrograms per cubic meter
NR - Not Reported

APPENDIX A

Laboratory Analysis Report



Engeo Inc (SJ)
6399 San Ignacio Ave, Suite 150
San Jose, California 95119
Tel: 408-574-4900/Scott cell:925-570-5855
Fax: 888-279-2698

RE: Fort Ord-Surplus II and adjacent Area

Work Order No.: 1705182

Dear Scott Johns:

Torrent Laboratory, Inc. received 68 sample(s) on May 24, 2017 for the analyses presented in the following Report.

As requested on the Chain of Custody, 68 samples were combined into 10 4:1 point composites, three 3:1 point composites and one 2:1 point composite for analysis.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Patti L. Sandroock", is written over a light blue horizontal line.

Patti L Sandroock
QA Officer

May 30, 2017

Date



Date: 5/30/2017

Client: Engeo Inc (SJ)

Project: Fort Ord-Surplus II and adjacent Area

Work Order: 1705182

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Analytical Comments for method Met_S_6020AsPb, 1705182-069A MS/MSD, QC Analytical Preparation ID 7050, Note: The % recoveries for Arsenic are outside of laboratory control limits (high bias) but % RPD is within limits. A Post Digestion Spike was analyzed and recovered within acceptance criteria. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 05/24/17

Date Reported: 05/30/17

4454-N, E, S, W-comp

1705182-069

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.04	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	5.94	ug/Kg
Endrin Aldehyde	SW8081B	4	0.60	8.0	9.04	ug/Kg

4453-N, S, W-comp

1705182-070

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.26	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	2.71	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	1.09	ug/Kg

4452-N, E, S, W-comp

1705182-071

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.45	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	1.54	ug/Kg

4451-N, E, S, W-comp

1705182-072

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.84	mg/Kg

4450-N, E-comp

1705182-073

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	3.08	mg/Kg
Heptachlor	SW8081B	4	0.42	8.0	5.76	ug/Kg

4418-N, E, S, W-comp

1705182-074

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.59	mg/Kg
Dieldrin	SW8081B	20	3.0	40	19.3	ug/Kg

4408-N, E, S, W-comp

1705182-075

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.86	mg/Kg
Dieldrin	SW8081B	20	3.0	40	16.5	ug/Kg



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 05/24/17

Date Reported: 05/30/17

4423-N, E, W-comp

1705182-076

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.24	mg/Kg
Lead	6020A	1	0.054	1.0	15.1	mg/Kg
4,4-DDE	SW8081B	20	3.9	40	8.02	ug/Kg
Dieldrin	SW8081B	20	3.0	40	7.16	ug/Kg

4421-N, E, S, W-comp

1705182-077

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.31	mg/Kg
Lead	6020A	1	0.054	1.0	13.8	mg/Kg

4420-N, E, S, W-comp

1705182-078

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.64	mg/Kg
Lead	6020A	1	0.054	1.0	13.2	mg/Kg
Dieldrin	SW8081B	4	0.59	8.0	16.2	ug/Kg

4214-N, E, S, W-comp

1705182-079

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	3.97	mg/Kg
Lead	6020A	50	0.54	10	237	mg/Kg
gamma-Chlordane	SW8081B	20	3.3	40	11.7	ug/Kg
alpha-Chlordane	SW8081B	20	3.5	40	8.50	ug/Kg
4,4-DDE	SW8081B	20	3.9	40	6.58	ug/Kg
Dieldrin	SW8081B	20	3.0	40	10.1	ug/Kg
4,4-DDD	SW8081B	20	11	40	12.8	ug/Kg
4,4-DDT	SW8081B	20	2.6	40	54.6	ug/Kg
Chlordane	SW8081B	20	42	400	88.4	ug/Kg

4400-S, W-comp

1705182-080

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.37	mg/Kg
Lead	6020A	1	0.054	1.0	22.6	mg/Kg
gamma-Chlordane	SW8081B	10	1.6	20	4.71	ug/Kg
alpha-Chlordane	SW8081B	10	1.7	20	4.92	ug/Kg
4,4-DDE	SW8081B	10	1.9	20	29.9	ug/Kg
Dieldrin	SW8081B	10	1.5	20	8.38	ug/Kg
4,4-DDT	SW8081B	10	1.3	20	42.8	ug/Kg
Chlordane	SW8081B	10	21	200	65.3	ug/Kg



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 05/24/17

Date Reported: 05/30/17

4405-N, E, W-comp

1705182-081

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.50	mg/Kg
Lead	6020A	1	0.054	1.0	6.43	mg/Kg

4480-N, E, S, W-comp

1705182-082

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	3.20	mg/Kg
Lead	6020A	1	0.054	1.0	5.25	mg/Kg

4467-N, E, S, W-comp

1705182-083

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.92	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	1.60	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	1.78	ug/Kg

4466-N, E, S, W-comp

1705182-084

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.14	mg/Kg

4458-N, S, W-comp

1705182-085

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.24	mg/Kg

4457-N, E, S, W-comp

1705182-086

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.97	mg/Kg

4456-N, E, S, W-comp

1705182-087

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.85	mg/Kg



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4454-N, E, S, W-comp	Lab Sample ID:	1705182-069A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.04		mg/Kg	05/26/17	15:12	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/24/17 2:15:00PM
Prep Batch ID: 7019	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	5.94	J	ug/Kg	05/26/17	0:44	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	9.04		ug/Kg	05/26/17	0:44	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	0:44	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	0:44	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	82.6		%	05/26/17	0:44	LA	424380
DCBP (S)	SW8081B		48 - 135	107		%	05/26/17	0:44	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4453-N, S, W-comp	Lab Sample ID:	1705182-070A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.26		mg/Kg	05/26/17	15:25	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/24/17 2:15:00PM
Prep Batch ID:	7019	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	2.71	J	ug/Kg	05/26/17	0:57	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	1.09	J	ug/Kg	05/26/17	0:57	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	0:57	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	0:57	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	77.9		%	05/26/17	0:57	LA	424380
DCBP (S)	SW8081B		48 - 135	89.9		%	05/26/17	0:57	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4452-N, E, S, W-comp	Lab Sample ID:	1705182-071A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.45		mg/Kg	05/26/17	15:29	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/24/17 2:15:00PM
Prep Batch ID: 7019	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	1.54	J	ug/Kg	05/26/17	1:11	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	1:11	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	1:11	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	93.5		%	05/26/17	1:11	LA	424380
DCBP (S)	SW8081B		48 - 135	92.8		%	05/26/17	1:11	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4451-N, E, S, W-comp	Lab Sample ID:	1705182-072A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.84		mg/Kg	05/26/17	15:33	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/24/17 2:15:00PM
Prep Batch ID: 7019	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	1:24	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	1:24	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	83.4	%	05/26/17	1:24	LA	424380
DCBP (S)	SW8081B		48 - 135	82.5	%	05/26/17	1:24	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4450-N, E-comp	Lab Sample ID:	1705182-073A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	3.08		mg/Kg	05/26/17	15:38	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	5.76	J	ug/Kg	05/26/17	1:38	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	1:38	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	1:38	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	93.9		%	05/26/17	1:38	LA	424380
DCBP (S)	SW8081B		48 - 135	75.6		%	05/26/17	1:38	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4418-N, E, S, W-comp	Lab Sample ID:	1705182-074A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.59		mg/Kg	05/26/17	15:55	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/26/17	1:52	LA	424380
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/26/17	1:52	LA	424380
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/26/17	1:52	LA	424380
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/26/17	1:52	LA	424380
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/26/17	1:52	LA	424380
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/26/17	1:52	LA	424380
4,4-DDE	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Dieldrin	SW8081B	20	3.0	40	19.3	J	ug/Kg	05/26/17	1:52	LA	424380
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/26/17	1:52	LA	424380
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/26/17	1:52	LA	424380
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/26/17	1:52	LA	424380
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/26/17	1:52	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	0.000	D	%	05/26/17	1:52	LA	424380
DCBP (S)	SW8081B		48 - 135	0.000	D	%	05/26/17	1:52	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4408-N, E, S, W-comp	Lab Sample ID:	1705182-075A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.86		mg/Kg	05/26/17	15:59	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/26/17	2:05	LA	424380
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/26/17	2:05	LA	424380
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/26/17	2:05	LA	424380
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/26/17	2:05	LA	424380
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/26/17	2:05	LA	424380
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/26/17	2:05	LA	424380
4,4-DDE	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Dieldrin	SW8081B	20	3.0	40	16.5	J	ug/Kg	05/26/17	2:05	LA	424380
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/26/17	2:05	LA	424380
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/26/17	2:05	LA	424380
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/26/17	2:05	LA	424380
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/26/17	2:05	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	0.000	D	%	05/26/17	2:05	LA	424380
DCBP (S)	SW8081B		48 - 135	0.000	D	%	05/26/17	2:05	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4423-N, E, W-comp	Lab Sample ID:	1705182-076A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.24		mg/Kg	05/26/17	16:08	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	15.1		mg/Kg	05/30/17	12:07	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/26/17	2:46	LA	424380
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/26/17	2:46	LA	424380
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/26/17	2:46	LA	424380
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/26/17	2:46	LA	424380
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/26/17	2:46	LA	424380
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/26/17	2:46	LA	424380
4,4-DDE	SW8081B	20	3.9	40	8.02	J	ug/Kg	05/26/17	2:46	LA	424380
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Dieldrin	SW8081B	20	3.0	40	7.16	J	ug/Kg	05/26/17	2:46	LA	424380
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/26/17	2:46	LA	424380
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/26/17	2:46	LA	424380
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/26/17	2:46	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4423-N, E, W-comp	Lab Sample ID:	1705182-076A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/26/17	2:46	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		0.000	D	%	05/26/17	2:46	LA	424380
DCBP (S)	SW8081B		48 - 135		0.000	D	%	05/26/17	2:46	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4421-N, E, S, W-comp	Lab Sample ID:	1705182-077A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.31		mg/Kg	05/26/17	16:12	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	13.8		mg/Kg	05/30/17	12:11	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	3:00	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4421-N, E, S, W-comp	Lab Sample ID:	1705182-077A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	3:00	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		82.4		%	05/26/17	3:00	LA	424380
DCBP (S)	SW8081B		48 - 135		76.0		%	05/26/17	3:00	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4420-N, E, S, W-comp	Lab Sample ID:	1705182-078A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.64		mg/Kg	05/26/17	16:17	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	13.2		mg/Kg	05/30/17	12:15	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	16.2		ug/Kg	05/26/17	3:13	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	3:13	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4420-N, E, S, W-comp	Lab Sample ID:	1705182-078A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	3:13	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		80.9		%	05/26/17	3:13	LA	424380
DCBP (S)	SW8081B		48 - 135		71.1		%	05/26/17	3:13	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4214-N, E, S, W-comp	Lab Sample ID:	1705182-079A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	3.97		mg/Kg	05/26/17	16:21	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	50	0.54	10	237		mg/Kg	05/30/17	12:18	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/26/17	3:27	LA	424380
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/26/17	3:27	LA	424380
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/26/17	3:27	LA	424380
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/26/17	3:27	LA	424380
gamma-Chlordane	SW8081B	20	3.3	40	11.7	J	ug/Kg	05/26/17	3:27	LA	424380
alpha-Chlordane	SW8081B	20	3.5	40	8.50	J	ug/Kg	05/26/17	3:27	LA	424380
4,4-DDE	SW8081B	20	3.9	40	6.58	J	ug/Kg	05/26/17	3:27	LA	424380
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Dieldrin	SW8081B	20	3.0	40	10.1	J	ug/Kg	05/26/17	3:27	LA	424380
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/26/17	3:27	LA	424380
4,4-DDD	SW8081B	20	11	40	12.8	J	ug/Kg	05/26/17	3:27	LA	424380
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/26/17	3:27	LA	424380
4,4-DDT	SW8081B	20	2.6	40	54.6		ug/Kg	05/26/17	3:27	LA	424380
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Chlordane	SW8081B	20	42	400	88.4	J	ug/Kg	05/26/17	3:27	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4214-N, E, S, W-comp	Lab Sample ID:	1705182-079A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/26/17	3:27	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		0.000	D	%	05/26/17	3:27	LA	424380
DCBP (S)	SW8081B		48 - 135		0.000	D	%	05/26/17	3:27	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4400-S, W-comp	Lab Sample ID:	1705182-080A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.37		mg/Kg	05/26/17	16:30	ERR	424393

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	22.6		mg/Kg	05/30/17	12:25	ERR	424417

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	3:41	LA	424380
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:41	LA	424380
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/26/17	3:41	LA	424380
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/26/17	3:41	LA	424380
gamma-Chlordane	SW8081B	10	1.6	20	4.71	J	ug/Kg	05/26/17	3:41	LA	424380
alpha-Chlordane	SW8081B	10	1.7	20	4.92	J	ug/Kg	05/26/17	3:41	LA	424380
4,4-DDE	SW8081B	10	1.9	20	29.9		ug/Kg	05/26/17	3:41	LA	424380
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Dieldrin	SW8081B	10	1.5	20	8.38	J	ug/Kg	05/26/17	3:41	LA	424380
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	3:41	LA	424380
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/26/17	3:41	LA	424380
4,4-DDT	SW8081B	10	1.3	20	42.8		ug/Kg	05/26/17	3:41	LA	424380
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Chlordane	SW8081B	10	21	200	65.3	J	ug/Kg	05/26/17	3:41	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4400-S, W-comp	Lab Sample ID:	1705182-080A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/26/17	3:41	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		97.9		%	05/26/17	3:41	LA	424380
DCBP (S)	SW8081B		48 - 135		80.3		%	05/26/17	3:41	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4405-N, E, W-comp	Lab Sample ID:	1705182-081A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.50		mg/Kg	05/26/17	16:43	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	6.43		mg/Kg	05/30/17	12:29	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	3:54	LA	424380
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:54	LA	424380
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/26/17	3:54	LA	424380
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/26/17	3:54	LA	424380
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:54	LA	424380
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/26/17	3:54	LA	424380
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Dieldrin	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	3:54	LA	424380
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/26/17	3:54	LA	424380
4,4-DDT	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/26/17	3:54	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4405-N, E, W-comp	Lab Sample ID:	1705182-081A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/26/17	3:54	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		96.6		%	05/26/17	3:54	LA	424380
DCBP (S)	SW8081B		48 - 135		101		%	05/26/17	3:54	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4480-N, E, S, W-comp	Lab Sample ID:	1705182-082A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	3.20		mg/Kg	05/26/17	16:47	ERR	424393

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	5.25		mg/Kg	05/30/17	12:40	ERR	424417

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	4:08	LA	424380
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:08	LA	424380
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/26/17	4:08	LA	424380
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/26/17	4:08	LA	424380
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:08	LA	424380
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/26/17	4:08	LA	424380
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Dieldrin	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	4:08	LA	424380
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/26/17	4:08	LA	424380
4,4-DDT	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/26/17	4:08	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4480-N, E, S, W-comp	Lab Sample ID:	1705182-082A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/26/17	4:08	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		86.5		%	05/26/17	4:08	LA	424380
DCBP (S)	SW8081B		48 - 135		81.3		%	05/26/17	4:08	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4467-N, E, S, W-comp	Lab Sample ID:	1705182-083A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.92		mg/Kg	05/26/17	16:51	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	1.60	J	ug/Kg	05/26/17	4:21	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	1.78	J	ug/Kg	05/26/17	4:21	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	4:21	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	4:21	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	88.1		%	05/26/17	4:21	LA	424380
DCBP (S)	SW8081B		48 - 135	73.6		%	05/26/17	4:21	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4466-N, E, S, W-comp	Lab Sample ID:	1705182-084A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.14		mg/Kg	05/26/17	16:56	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	4:35	LA	424380
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:35	LA	424380
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/26/17	4:35	LA	424380
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/26/17	4:35	LA	424380
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:35	LA	424380
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/26/17	4:35	LA	424380
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Dieldrin	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	4:35	LA	424380
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/26/17	4:35	LA	424380
4,4-DDT	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/26/17	4:35	LA	424380
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/26/17	4:35	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	94.2	%	05/26/17	4:35	LA	424380
DCBP (S)	SW8081B		48 - 135	90.4	%	05/26/17	4:35	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4458-N, S, W-comp	Lab Sample ID:	1705182-085A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.24		mg/Kg	05/26/17	17:04	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	4:49	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	4:49	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	95.3	%	05/26/17	4:49	LA	424380
DCBP (S)	SW8081B		48 - 135	77.5	%	05/26/17	4:49	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4457-N, E, S, W-comp	Lab Sample ID:	1705182-086A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.97		mg/Kg	05/26/17	17:09	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	5:43	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	5:43	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		89.8		%	05/26/17	5:43	LA	424380
DCBP (S)	SW8081B		48 - 135		82.9		%	05/26/17	5:43	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4456-N, E, S, W-comp	Lab Sample ID:	1705182-087A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.85		mg/Kg	05/26/17	17:13	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	5:57	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	5:57	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	86.7	%	05/26/17	5:57	LA	424380
DCBP (S)	SW8081B		48 - 135	78.5	%	05/26/17	5:57	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



MB Summary Report

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/24/17	Prep Batch:	7019
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/25/2017	Analytical Batch:	424379
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4-DDE	0.19	2.0	ND	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			93.1	
DCBP (S)			91.0	



MB Summary Report

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/25/17	Prep Batch:	7028
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/25/2017	Analytical Batch:	424380
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
alpha-BHC	0.13	2.0	ND		
gamma-BHC (Lindane)	0.16	2.0	ND		
beta-BHC	0.32	2.0	ND		
delta-BHC	0.16	2.0	ND		
Heptachlor	0.11	2.0	ND		
Aldrin	0.20	2.0	ND		
Heptachlor Epoxide	0.078	2.0	ND		
gamma-Chlordane	0.16	2.0	ND		
alpha-Chlordane	0.17	2.0	ND		
4,4-DDE	0.19	2.0	ND		
Endosulfan I	0.18	2.0	ND		
Dieldrin	0.15	2.0	ND		
Endrin	0.19	2.0	ND		
4,4-DDD	0.57	2.0	ND		
Endosulfan II	0.58	2.0	ND		
4,4-DDT	0.13	2.0	ND		
Endrin Aldehyde	0.15	2.0	ND		
Methoxychlor	0.20	2.0	ND		
Endosulfan Sulfate	0.12	2.0	ND		
Endrin Ketone	0.094	2.0	ND		
Chlordane	2.1	20	ND		
Toxaphene	8.5	50	ND		
TCMX (S)			94.0		
DCBP (S)			90.4		

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	05/25/17	Prep Batch:	7050
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/26/2017	Analytical Batch:	424393
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Arsenic	0.21	1.0	ND		



MB Summary Report

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	05/25/17	Prep Batch:	7050
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424417
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Lead	0.054	1.0	0.084		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/24/17	Prep Batch:	7019
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/25/2017	Analytical Batch:	424379
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	112	102	9.84	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	106	95.7	9.69	40 - 130	30	
Aldrin	0.20	2.0	ND	40	110	98.9	10.3	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	106	94.3	11.3	60 - 130	30	
Endrin	0.19	2.0	ND	40	111	98.7	11.7	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	117	103	13.4	45 - 140	30	
TCMX (S)				100	94.4	87.8		48 - 125		
DCBP (S)				100	101	98.1		48 - 135		

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/25/17	Prep Batch:	7028
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/26/2017	Analytical Batch:	424380
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	109	109	0.460	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	104	105	0.000	40 - 130	30	
Aldrin	0.20	2.0	ND	40	107	106	0.705	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	103	103	0.485	60 - 130	30	
Endrin	0.19	2.0	ND	40	114	114	0.220	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	115	114	1.10	45 - 140	30	
TCMX (S)				100	90.9	89.5		48 - 125		
DCBP (S)				100	90.0	95.1		48 - 135		

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	05/25/17	Prep Batch:	7050
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424393
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	ND	25	89.4	85.7	4.12	80 - 120	30	
Lead	0.054	1.0	0.084	25	98.1	105	6.32	80 - 120	30	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/25/17	Prep Batch:	7028
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/26/2017	Analytical Batch:	424380
Spiked Sample:	1705182-087A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.636	8.00	ND	40	87.1	93.9	7.18	25 - 135	30	
Heptachlor	0.420	8.00	ND	40	91.9	97.5	6.08	40 - 130	30	
Aldrin	0.780	8.00	ND	40	78.4	83.2	6.19	25 - 140	30	
Dieldrin	0.592	8.00	ND	40	79.6	84.9	6.69	60 - 130	30	
Endrin	0.752	8.00	ND	40	90.1	92.1	2.20	55 - 135	30	
4,4-DDT	0.516	8.00	ND	40	110	110	0.454	45 - 140	30	
TCMX (S)				100	83.5	90.7		48 - 125		
DCBP (S)				100	78.9	76.6		48 - 135		

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	05/25/17	Prep Batch:	7050
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	May 26	Analytical Batch:	424393
Spiked Sample:	1705182-069A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	2.04	25	126	133	5.23	71.0 - 121	30	S



Duplicate QC Summary Report

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	5/25/2017	Prep Batch:	7050
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/26/17	Analytical Batch:	424393
Units:						Lab Sample ID:	1705182-073A-DUP-7050

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Arsenic	0.21	1.0	3.08	2.50	20.90	

Work Order:	1705182	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/30/17	Analytical Batch:	424417
Units:						Lab Sample ID:	1705182-079Ax50-DUP-424417

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Lead	0.54	10	237	217	8.62	

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	5/25/2017	Prep Batch:	7050
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/26/17	Analytical Batch:	424393
Units:						Lab Sample ID:	1705182-084A-DUP-7050

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Arsenic	0.21	1.0	2.14	1.80	17.30	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Engeo Inc (SJ)

Date and Time Received: 5/24/2017 3:20:00PM

Project Name: Fort Ord-Surplus II and adjacent Area

Received By: Navin Ghodasara

Work Order No.: 1705182

Physically Logged By: Navin Ghodasara

Checklist Completed By:

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
Shipping Container/Cooler In Good Condition?	<u>Yes</u>
Samples in proper container/bottle?	<u>Yes</u>
Samples containers intact?	<u>Yes</u>
Sufficient sample volume for indicated test?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>	
Container/Temp Blank temperature in compliance?	<u>Yes</u>	Temperature: 8.0 °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>	
Water-pH acceptable upon receipt?	<u>N/A</u>	
pH Checked by: na	pH Adjusted by: na	

Comments:



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-001A	4454-N	05/24/17 8:19	Soil	11/20/17			Composite	
1705182-002A	4454-E	05/24/17 8:17	Soil	11/20/17			Composite	
1705182-003A	4454-S	05/24/17 8:15	Soil	11/20/17			Composite	
1705182-004A	4454-W	05/24/17 8:22	Soil	11/20/17			Composite	
1705182-005A	4453-N	05/24/17 11:22	Soil	11/20/17			Composite	
1705182-006A	4453-S	05/24/17 11:29	Soil	11/20/17			Composite	
1705182-007A	4453-W	05/24/17 11:26	Soil	11/20/17			Composite	
1705182-008A	4452-N	05/24/17 9:55	Soil	11/20/17			Composite	
1705182-009A	4452-E	05/24/17 9:53	Soil	11/20/17			Composite	
1705182-010A	4452-S	05/24/17 10:01	Soil	11/20/17			Composite	
1705182-011A	4452-W	05/24/17 9:58	Soil	11/20/17			Composite	
1705182-012A	4451-N	05/24/17 9:40	Soil	11/20/17			Composite	
1705182-013A	4451-E	05/24/17 9:37	Soil	11/20/17			Composite	
1705182-014A	4451-S	05/24/17 9:45	Soil	11/20/17			Composite	
1705182-015A	4451-W	05/24/17 9:42	Soil	11/20/17			Composite	
1705182-016A	4450-N	05/24/17 9:25	Soil	11/20/17			Composite	
1705182-017A	4450-E	05/24/17 9:27	Soil	11/20/17			Composite	
1705182-018A	4418-N	05/24/17 9:11	Soil	11/20/17			Composite	
1705182-019A	4418-E	05/24/17 9:09	Soil	11/20/17			Composite	



Login Summary Report

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Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-020A	4418-S	05/24/17 9:07	Soil	11/20/17			Composite	
1705182-021A	4418-W	05/24/17 9:05	Soil	11/20/17			Composite	
1705182-022A	4408-N	05/24/17 8:53	Soil	11/20/17			Composite	
1705182-023A	4408-E	05/24/17 9:00	Soil	11/20/17			Composite	
1705182-024A	4408-S	05/24/17 8:57	Soil	11/20/17			Composite	
1705182-025A	4408-W	05/24/17 8:55	Soil	11/20/17			Composite	
1705182-026A	4423-E	05/24/17 10:59	Soil	11/20/17			Composite	
1705182-027A	4423-N	05/24/17 10:57	Soil	11/20/17			Composite	
1705182-028A	4423-W	05/24/17 10:55	Soil	11/20/17			Composite	
1705182-029A	4454-N	05/24/17	Soil	11/20/17			Composite	
1705182-030A	4421-E	05/24/17 10:29	Soil	11/20/17			Composite	
1705182-031A	4421-S	05/24/17 10:27	Soil	11/20/17			Composite	
1705182-032A	4421-W	05/24/17	Soil	11/20/17			Composite	
1705182-033A	4420-N	05/24/17 10:41	Soil	11/20/17			Composite	
1705182-034A	4420-E	05/24/17 10:44	Soil	11/20/17			Composite	
1705182-035A	4420-S	05/24/17 10:45	Soil	11/20/17			Composite	
1705182-036A	4420-W	05/24/17 10:47	Soil	11/20/17			Composite	
1705182-037A	4214-N	05/24/17 11:46	Soil	11/20/17			Composite	
1705182-038A	4214-E	05/24/17 11:44	Soil	11/20/17			Composite	



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-039A	4214-S	05/24/17 11:43	Soil	11/20/17			Composite	
1705182-040A	4214-W	05/24/17 11:41	Soil	11/20/17			Composite	
1705182-041A	4400-S	05/24/17 11:57	Soil	11/20/17			Composite	
1705182-042A	4400-W	05/24/17 11:56	Soil	11/20/17			Composite	
1705182-043A	4405-N	05/24/17 13:14	Soil	11/20/17			Composite	
1705182-044A	4405-E	05/24/17 13:12	Soil	11/20/17			Composite	
1705182-045A	4405-W	05/24/17 13:16	Soil	11/20/17			Composite	
1705182-046A	4480-N	05/24/17 12:58	Soil	11/20/17			Composite	
1705182-047A	4480-E	05/24/17 12:56	Soil	11/20/17			Composite	
1705182-048A	4480-S	05/24/17 13:02	Soil	11/20/17			Composite	
1705182-049A	4480-W	05/24/17 13:00	Soil	11/20/17			Composite	
1705182-050A	4467-N	05/24/17 12:45	Soil	11/20/17			Composite	
1705182-051A	4467-E	05/24/17 12:40	Soil	11/20/17			Composite	
1705182-052A	4467-S	05/24/17 12:41	Soil	11/20/17			Composite	
1705182-053A	4467-W	05/24/17 12:43	Soil	11/20/17			Composite	
1705182-054A	4466-N	05/24/17 12:34	Soil	11/20/17			Composite	
1705182-055A	4466-E	05/24/17 12:28	Soil	11/20/17			Composite	
1705182-056A	4466-S	05/24/17 12:30	Soil	11/20/17			Composite	
1705182-057A	4466-W	05/24/17 12:32	Soil	11/20/17			Composite	



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-058A	4458-N	05/24/17 8:44	Soil	11/20/17			Composite	
1705182-059A	4458-S	05/24/17 8:38	Soil	11/20/17			Composite	
1705182-060A	4458-W	05/24/17 8:41	Soil	11/20/17			Composite	
1705182-061A	4457-N	05/24/17 7:45	Soil	11/20/17			Composite	
1705182-062A	4457-E	05/24/17 7:43	Soil	11/20/17			Composite	
1705182-063A	4457-S	05/24/17 7:40	Soil	11/20/17			Composite	
1705182-064A	4457-W	05/24/17 7:55	Soil	11/20/17			Composite	
1705182-065A	4456-N	05/24/17 7:55	Soil	11/20/17			Composite	
1705182-066A	4456-E	05/24/17 7:57	Soil	11/20/17			Composite	
1705182-067A	4456-S	05/24/17 8:00	Soil	11/20/17			Composite	
1705182-068A	4456-W	05/24/17 8:02	Soil	11/20/17			Composite	
1705182-069A	4454-N, E, S, W-comp	05/24/17	Soil	11/20/17			Composite Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-070A	4453-N, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 3:1. OCPs, As -6020							
1705182-071A	4452-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-072A	4451-N, E, S, W-comp	05/24/17	Soil	11/20/17				



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : 1705182

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
							Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-073A	4450-N, E-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
1705182-074A	4418-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-075A	4408-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-076A	4423-N, E, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 3:1. OCPs, As &Pb --6020							
1705182-077A	4421-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As & Pb-6020							
1705182-078A	4420-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As &Pb --6020							
1705182-079A	4214-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As &Pb --6020							
1705182-080A	4400-S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 2:1. OCPs, As &Pb --6020							



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-081A	4405-N, E, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 3:1. OCPs, As &Pb --6020							
1705182-082A	4480-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As &Pb --6020							
1705182-083A	4467-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As --6020							
1705182-084A	4466-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As --6020							
1705182-085A	4458-N, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 3:1. OCPs, As --6020							
1705182-086A	4457-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As --6020							
1705182-087A	4456-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As --6020							

1705182

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area		OCPs (8081)		Arsenic (6020)		Lead (6020)												REMARKS REQUIRED DETECTION LIMITS	
SAMPLED BY (SIGNATURE/PRINT) <i>[Signature]</i>		PROJECT MANAGER: Scott Johns																			
ROUTING: E-MAIL sjohns@engeo.com Hard Copy NA																					
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE															
4454- N	5/24/17	8:19	Soil	1	Liner/Jar	NA/ICE	X	X													4 PT Comp
4454- E		8:17	Soil	1	Liner/Jar	NA/ICE	X	X													
4454- S		8:15	Soil	1	Liner/Jar	NA/ICE	X	X													
4454- W		8:22	Soil	1	Liner/Jar	NA/ICE	X	X													
4453- N		11:22	Soil	1	Liner/Jar	NA/ICE	X	X													3 PT Comp
4453- E			Soil	1	Liner/Jar	NA/ICE	X	X													
4453- S	5/24/17	11:29	Soil	1	Liner/Jar	NA/ICE	X	X													
4453- W		11:26	Soil	1	Liner/Jar	NA/ICE	X	X													
4452- N		9:55	Soil	1	Liner/Jar	NA/ICE	X	X													4 PT Comp
4452- E		9:53	Soil	1	Liner/Jar	NA/ICE	X	X													
4452- S		10:01	Soil	1	Liner/Jar	NA/ICE	X	X													
4452- W		9:58	Soil	1	Liner/Jar	NA/ICE	X	X													
4451- N		9:40	Soil	1	Liner/Jar	NA/ICE	X	X													4 PT Comp
4451- E		9:37	Soil	1	Liner/Jar	NA/ICE	X	X													
4451- S		9:45	Soil	1	Liner/Jar	NA/ICE	X	X													
4451- W		9:42	Soil	1	Liner/Jar	NA/ICE	X	X													
4450- N		9:25	Soil	1	Liner/Jar	NA/ICE	X	X													2 PT Comp
4450- E		9:27	Soil	1	Liner/Jar	NA/ICE	X	X													
4450- S	TL		Soil	1	Liner/Jar	NA/ICE	X	X													
4450- W	TL		Soil	1	Liner/Jar	NA/ICE	X	X													

RELINQUISHED BY: (SIGNATURE)
[Signature]

RELINQUISHED BY: (SIGNATURE)

DATE/TIME
5/24/17 14:06

DATE/TIME

DATE/TIME

RECEIVED BY: (SIGNATURE)
[Signature]

RECEIVED BY: (SIGNATURE)

RECEIVED FOR LABORATORY BY: (SIGNATURE)

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REMARKS
3 Day TAT
Composite samples as noted.

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INCORPORATED

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CHAIN OF CUSTODY RECORD

1705182

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area					OCPs (8081)	Arsenic (6020)	Lead (6020)											REMARKS REQUIRED DETECTION LIMITS
SAMPLED BY (SIGNATURE/PRINT) <i>[Signature]</i>		Travis Chatters																		
PROJECT MANAGER: Scott Johns																				
ROUTING: E-MAIL <i>sjohns@engeo.com</i>		Hard Copy NA																		
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE														
018A 4418-N	5/24/17	9:11	Soil	1	Liner/Jar	NA/ICE	XX	}	-074A									4 PT Comp		
019A 4418-E		9:09	Soil	1	Liner/Jar	NA/ICE														
020A 4418-S		9:07	Soil	1	Liner/Jar	NA/ICE														
021A 4418-W		9:05	Soil	1	Liner/Jar	NA/ICE														
022A 4408-N		8:53	Soil	1	Liner/Jar	NA/ICE	XX	}	-075A									4 PT Comp		
023A 4408-E		9:00	Soil	1	Liner/Jar	NA/ICE														
024A 4408-S		8:57	Soil	1	Liner/Jar	NA/ICE														
025A 4408-W		8:55	Soil	1	Liner/Jar	NA/ICE														
4422-N			Soil	1	Liner/Jar	NA/ICE	XX	}	-76A									3 PT Comp		
026A 4423-E	5/24/17	10:59	Soil	1	Liner/Jar	NA/ICE														
027A 4423-EN		10:57	Soil	1	Liner/Jar	NA/ICE														
028A 4423-W		10:55	Soil	1	Liner/Jar	NA/ICE														
029A 4421-N		10:30	Soil	1	Liner/Jar	NA/ICE	XX	}	-077A									4 PT Comp		
030A 4421-E		10:29	Soil	1	Liner/Jar	NA/ICE														
031A 4421-S		11:27	Soil	1	Liner/Jar	NA/ICE														
032A 4421-W		10:25	Soil	1	Liner/Jar	NA/ICE														
033A 4420-N		10:41	Soil	1	Liner/Jar	NA/ICE	XX	}	-078A									4 PT Comp		
034A 4420-E		10:45	Soil	1	Liner/Jar	NA/ICE														
035A 4420-S		10:45	Soil	1	Liner/Jar	NA/ICE														
036A 4420-W		10:47	Soil	1	Liner/Jar	NA/ICE														
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 5/24/17 14:06		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 5/24/17 3:20		RECEIVED BY: (SIGNATURE) NAVIN G										
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)										
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS 3 Day TAT Composite samples as noted.												

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1705182

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area		OCPrs (6081) Arsenic (6020) Lead (6020)		REMARKS REQUIRED DETECTION LIMITS														
SAMPLED BY: (SIGNATURE/PRINT) <i>Travis Chatters</i>																				
PROJECT MANAGER: Scott Johns																				
ROUTING: E-MAIL sjohns@engeo.com Hard Copy NA																				
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE														
4214- N	5/24/17	11:46	Soil	1	Liner/Jar	NA/ICE	XXXX	-079A											4 PT Comp	
4214- E		11:44	Soil	1	Liner/Jar	NA/ICE														
4214- S		11:43	Soil	1	Liner/Jar	NA/ICE														
4214- W		11:41	Soil	1	Liner/Jar	NA/ICE														
4400- N	TC		Soil	1	Liner/Jar	NA/ICE	XXXX	-080A												
4400- E	TC		Soil	1	Liner/Jar	NA/ICE														
4400- S	5/24/17	11:57	Soil	1	Liner/Jar	NA/ICE														2 PT Comp
4400- W		11:56	Soil	1	Liner/Jar	NA/ICE														2 PT Comp
S-4403- N	TC		Soil	1	Liner/Jar	NA/ICE	XXXX													
S-4403- E	TC		Soil	1	Liner/Jar	NA/ICE														No Sample
S-4403- S	TC		Soil	1	Liner/Jar	NA/ICE														
S-4403- W	TC		Soil	1	Liner/Jar	NA/ICE														
4405- N	5/24/17	13:14	Soil	1	Liner/Jar	NA/ICE	XXXX	-081A											3 PT Comp	
4405- E		13:12	Soil	1	Liner/Jar	NA/ICE														
4405- S	TC		Soil	1	Liner/Jar	NA/ICE														
4405- W	5/24/17	13:16	Soil	1	Liner/Jar	NA/ICE														
4480- N		12:58	Soil	1	Liner/Jar	NA/ICE	XXXX	-082A											4 PT Comp	
4480- E		12:56	Soil	1	Liner/Jar	NA/ICE														
4480- S		13:02	Soil	1	Liner/Jar	NA/ICE														
4480- W		13:00	Soil	1	Liner/Jar	NA/ICE														
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>			DATE/TIME 5/24/17 14:06		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>			DATE/TIME 5/24 3:20		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>								
RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)								
RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME			REMARKS										



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3 Day TAT
 Composite samples as noted.

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CHAIN OF CUSTODY RECORD

1705182

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area						OCPs (8081) Arsenic (6020) Lead (6020)											REMARKS REQUIRED DETECTION LIMITS
SAMPLED BY: (SIGNATURE/PRINT) <i>Trevi Chetters</i>																			
PROJECT MANAGER: Scott Johns																			
ROUTING: E-MAIL <i>sjohns@engeo.com</i> Hard Copy NA																			
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE													
050A 4467- N	5/24/17	12:45	Soil	1	Liner/Jar	NA/ICE												4 PT Comp	
051A 4467- E		12:40	Soil	1	Liner/Jar	NA/ICE													
052A 4467- S		12:41	Soil	1	Liner/Jar	NA/ICE													
053A 4467- W		12:43	Soil	1	Liner/Jar	NA/ICE													
054A 4466- N		12:34	Soil	1	Liner/Jar	NA/ICE												4 PT Comp	
055A 4466- E		12:28	Soil	1	Liner/Jar	NA/ICE													
056A 4466- S		12:30	Soil	1	Liner/Jar	NA/ICE													
057A 4466- W		12:32	Soil	1	Liner/Jar	NA/ICE													
058A 4458- N		8:44	Soil	1	Liner/Jar	NA/ICE												3 PT Comp	
059A 4458- E			Soil	1	Liner/Jar	NA/ICE													
060A 4458- S	5/24/17	8:38	Soil	1	Liner/Jar	NA/ICE													
061A 4458- W		8:41	Soil	1	Liner/Jar	NA/ICE													
062A 4457- N		7:45	Soil	1	Liner/Jar	NA/ICE												4 PT Comp	
063A 4457- E		7:43	Soil	1	Liner/Jar	NA/ICE													
064A 4457- S		7:40	Soil	1	Liner/Jar	NA/ICE													
065A 4457- W		7:48	Soil	1	Liner/Jar	NA/ICE													
066A 4456- N		7:55	Soil	1	Liner/Jar	NA/ICE												4 PT Comp	
067A 4456- E		7:57	Soil	1	Liner/Jar	NA/ICE													
068A 4456- S		8:00	Soil	1	Liner/Jar	NA/ICE													
069A 4456- W		8:02	Soil	1	Liner/Jar	NA/ICE													
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 5/24/17 14:06		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 5/24/17 3:20		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>									
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)									
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS											
								3 Day TAT Composite samples as noted.											

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Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Fort Ord - Surplus II and Adjacent Area

Work Order No.: 1705192

Dear Scott Johns:

Torrent Laboratory, Inc. received 66 sample(s) on May 25, 2017 for the analyses presented in the following Report.

As requested on the Chain of Custody, 66 samples were combined into 15 4:1 point composites and two 3:1 point composites for analysis.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti L Sandroock
QA Officer

May 31, 2017

Date



Date: 5/31/2017

Client: Engeo (San Ramon)

Project: Fort Ord - Surplus II and Adjacent Area

Work Order: 1705192

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Analytical Comments for method Met_S_6020AsPb, 1705192-067 MS, QC Analytical Preparation ID 7076, Note: The % recovery for Arsenic is outside of laboratory control limits but % RPD is within limits. A Post Digestion Spike was analyzed and recovered with acceptance criteria indicating sample heterogeneity rather than matrix interference. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.



Sample Result Summary

Report prepared for: Scott Johns
Engeo (San Ramon)

Date Received: 05/25/17

Date Reported: 05/31/17

4483-N, E, S, W COMP

1705192-067

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.19	mg/Kg
Lead	6020A	1	0.054	1.0	6.48	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	3.71	ug/Kg
Endrin Aldehyde	SW8081B	4	0.60	8.0	3.00	ug/Kg

4481-N, E, S COMP

1705192-068

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.83	mg/Kg
Lead	6020A	1	0.054	1.0	4.04	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	3.72	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	3.46	ug/Kg

4472-N, E, S, W COMP

1705192-069

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.44	mg/Kg
Dieldrin	SW8081B	4	0.59	8.0	4.89	ug/Kg

4471-N, E, S, W COMP

1705192-070

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.83	mg/Kg

4469-N, E, S, W COMP

1705192-071

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.62	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	1.50	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	1.38	ug/Kg

4419-N, S, W COMP

1705192-072

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.27	mg/Kg
Lead	6020A	1	0.054	1.0	11.1	mg/Kg
gamma-Chlordane	SW8081B	4	0.65	8.0	10.5	ug/Kg
alpha-Chlordane	SW8081B	4	0.69	8.0	12.1	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	69.6	ug/Kg
Chlordane	SW8081B	4	8.4	80	106	ug/Kg



Sample Result Summary

Report prepared for: Scott Johns
Engeo (San Ramon)

Date Received: 05/25/17

Date Reported: 05/31/17

4560-N, E, S, W COMP

1705192-073

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.27	mg/Kg
Dieldrin	SW8081B	10	1.5	20	54.6	ug/Kg
4,4-DDT	SW8081B	10	1.3	20	5.27	ug/Kg

4550-N, E, S, W COMP

1705192-074

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.38	mg/Kg
4,4-DDE	SW8081B	20	3.9	40	11.0	ug/Kg
Dieldrin	SW8081B	20	3.0	40	99.2	ug/Kg
4,4-DDT	SW8081B	20	2.6	40	13.7	ug/Kg

4440-N, E, S, W COMP

1705192-075

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.42	mg/Kg
Dieldrin	SW8081B	10	1.5	20	8.91	ug/Kg

4442-N, E, S, W COMP

1705192-076

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.52	mg/Kg
Dieldrin	SW8081B	20	3.0	40	14.5	ug/Kg

4430-N, E, S, W COMP

1705192-077

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.14	mg/Kg
4,4-DDE	SW8081B	10	1.9	20	3.25	ug/Kg
Dieldrin	SW8081B	10	1.5	20	27.8	ug/Kg
4,4-DDT	SW8081B	10	1.3	20	5.93	ug/Kg

4432-N, E, S, W COMP

1705192-078

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.78	mg/Kg
Heptachlor Epoxide	SW8081B	4	0.31	8.0	1.26	ug/Kg
gamma-Chlordane	SW8081B	4	0.65	8.0	37.5	ug/Kg
alpha-Chlordane	SW8081B	4	0.69	8.0	39.8	ug/Kg
4,4-DDE	SW8081B	4	0.78	8.0	2.07	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	37.0	ug/Kg
4,4-DDT	SW8081B	4	0.52	8.0	4.96	ug/Kg
Chlordane	SW8081B	4	8.4	80	327	ug/Kg



Sample Result Summary

Report prepared for: Scott Johns
Engeo (San Ramon)

Date Received: 05/25/17

Date Reported: 05/31/17

4434-N, E, S, W COMP

1705192-079

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.40	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	6.38	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	20.5	ug/Kg
4,4-DDT	SW8081B	4	0.52	8.0	9.13	ug/Kg

4436-N, E, S, W COMP

1705192-080

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.11	mg/Kg
Dieldrin	SW8081B	4	0.59	8.0	10.1	ug/Kg

4438-N, E, S, W COMP

1705192-081

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.59	mg/Kg
Dieldrin	SW8081B	20	3.0	40	67.5	ug/Kg

4444-N, E, S, W COMP

1705192-082

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.01	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	3.35	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	17.3	ug/Kg

4446-N, E, S, W COMP

1705192-083

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.44	mg/Kg
Dieldrin	SW8081B	4	0.59	8.0	23.5	ug/Kg
4,4-DDT	SW8081B	4	0.52	8.0	5.18	ug/Kg



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4483-N, E, S, W COMP	Lab Sample ID:	1705192-067A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.19		mg/Kg	05/30/17	15:09	ERR	424419

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	6.48		mg/Kg	05/30/17	18:52	ERR	424441

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	3.71	J	ug/Kg	05/30/17	18:11	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	3.00	J	ug/Kg	05/30/17	18:11	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	18:11	LA	424443



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4483-N, E, S, W COMP	Lab Sample ID:	1705192-067A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	18:11	LA	424443
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		110		%	05/30/17	18:11	LA	424443
DCBP (S)	SW8081B		48 - 135		118		%	05/30/17	18:11	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4481-N, E, S COMP	Lab Sample ID:	1705192-068A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.83		mg/Kg	05/30/17	15:22	ERR	424419

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	4.04		mg/Kg	05/30/17	19:03	ERR	424441

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	3.72	J	ug/Kg	05/30/17	18:24	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	3.46	J	ug/Kg	05/30/17	18:24	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	18:24	LA	424443



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4481-N, E, S COMP	Lab Sample ID:	1705192-068A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	18:24	LA	424443
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		99.0		%	05/30/17	18:24	LA	424443
DCBP (S)	SW8081B		48 - 135		98.2		%	05/30/17	18:24	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4472-N, E, S, W COMP	Lab Sample ID:	1705192-069A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.44		mg/Kg	05/30/17	15:31	ERR	424419

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	4.89	J	ug/Kg	05/30/17	18:38	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	18:38	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	18:38	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	112		%	05/30/17	18:38	LA	424443
DCBP (S)	SW8081B		48 - 135	101		%	05/30/17	18:38	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4471-N, E, S, W COMP	Lab Sample ID:	1705192-070A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.83		mg/Kg	05/30/17	15:35	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	18:51	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	18:51	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		105		%	05/30/17	18:51	LA	424443
DCBP (S)	SW8081B		48 - 135		99.8		%	05/30/17	18:51	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4469-N, E, S, W COMP	Lab Sample ID:	1705192-071A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.62		mg/Kg	05/30/17	15:48	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	1.50	J	ug/Kg	05/30/17	19:05	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	1.38	J	ug/Kg	05/30/17	19:05	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	19:05	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	19:05	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	102		%	05/30/17	19:05	LA	424443
DCBP (S)	SW8081B		48 - 135	97.7		%	05/30/17	19:05	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4419-N, S, W COMP	Lab Sample ID:	1705192-072A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.27		mg/Kg	05/30/17	15:52	ERR	424419

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	11.1		mg/Kg	05/30/17	19:10	ERR	424441

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	10.5		ug/Kg	05/30/17	19:19	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	12.1		ug/Kg	05/30/17	19:19	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	69.6		ug/Kg	05/30/17	19:19	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Chlordane	SW8081B	4	8.4	80	106		ug/Kg	05/30/17	19:19	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	19:19	LA	424443



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4419-N, S, W COMP	Lab Sample ID:	1705192-072A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		104		%	05/30/17	19:19	LA	424443
DCBP (S)	SW8081B		48 - 135		96.2		%	05/30/17	19:19	LA	424443



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4560-N, E, S, W COMP	Lab Sample ID:	1705192-073A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.27		mg/Kg	05/30/17	15:56	ERR	424419

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/30/17	19:32	LA	424443
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	19:32	LA	424443
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/30/17	19:32	LA	424443
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/30/17	19:32	LA	424443
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	19:32	LA	424443
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/30/17	19:32	LA	424443
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Dieldrin	SW8081B	10	1.5	20	54.6		ug/Kg	05/30/17	19:32	LA	424443
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	19:32	LA	424443
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/30/17	19:32	LA	424443
4,4-DDT	SW8081B	10	1.3	20	5.27	J	ug/Kg	05/30/17	19:32	LA	424443
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/30/17	19:32	LA	424443
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/30/17	19:32	LA	424443
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		115		%	05/30/17	19:32	LA	424443
DCBP (S)	SW8081B		48 - 135		131		%	05/30/17	19:32	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4550-N, E, S, W COMP	Lab Sample ID:	1705192-074A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.38		mg/Kg	05/30/17	16:05	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/30/17	20:13	LA	424443
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/30/17	20:13	LA	424443
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/30/17	20:13	LA	424443
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/30/17	20:13	LA	424443
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/30/17	20:13	LA	424443
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/30/17	20:13	LA	424443
4,4-DDE	SW8081B	20	3.9	40	11.0	J	ug/Kg	05/30/17	20:13	LA	424443
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Dieldrin	SW8081B	20	3.0	40	99.2		ug/Kg	05/30/17	20:13	LA	424443
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/30/17	20:13	LA	424443
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/30/17	20:13	LA	424443
4,4-DDT	SW8081B	20	2.6	40	13.7	J	ug/Kg	05/30/17	20:13	LA	424443
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/30/17	20:13	LA	424443
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/30/17	20:13	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	0.000	D	%	05/30/17	20:13	LA	424443
DCBP (S)	SW8081B		48 - 135	0.000	D	%	05/30/17	20:13	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4440-N, E, S, W COMP	Lab Sample ID:	1705192-075A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.42		mg/Kg	05/30/17	16:09	ERR	424419

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/30/17	20:27	LA	424443
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:27	LA	424443
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/30/17	20:27	LA	424443
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/30/17	20:27	LA	424443
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:27	LA	424443
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/30/17	20:27	LA	424443
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Dieldrin	SW8081B	10	1.5	20	8.91	J	ug/Kg	05/30/17	20:27	LA	424443
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	20:27	LA	424443
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/30/17	20:27	LA	424443
4,4-DDT	SW8081B	10	1.3	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/30/17	20:27	LA	424443
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/30/17	20:27	LA	424443
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		114		%	05/30/17	20:27	LA	424443
DCBP (S)	SW8081B		48 - 135		108		%	05/30/17	20:27	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4442-N, E, S, W COMP	Lab Sample ID:	1705192-076A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.52		mg/Kg	05/30/17	16:14	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/30/17	20:41	LA	424443
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/30/17	20:41	LA	424443
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/30/17	20:41	LA	424443
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/30/17	20:41	LA	424443
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/30/17	20:41	LA	424443
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/30/17	20:41	LA	424443
4,4-DDE	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Dieldrin	SW8081B	20	3.0	40	14.5	J	ug/Kg	05/30/17	20:41	LA	424443
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/30/17	20:41	LA	424443
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/30/17	20:41	LA	424443
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/30/17	20:41	LA	424443
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/30/17	20:41	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		0.000	D	%	05/30/17	20:41	LA	424443
DCBP (S)	SW8081B		48 - 135		0.000	D	%	05/30/17	20:41	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4430-N, E, S, W COMP	Lab Sample ID:	1705192-077A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.14		mg/Kg	05/30/17	16:18	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/30/17	20:54	LA	424443
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:54	LA	424443
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/30/17	20:54	LA	424443
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/30/17	20:54	LA	424443
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:54	LA	424443
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/30/17	20:54	LA	424443
4,4-DDE	SW8081B	10	1.9	20	3.25	J	ug/Kg	05/30/17	20:54	LA	424443
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Dieldrin	SW8081B	10	1.5	20	27.8		ug/Kg	05/30/17	20:54	LA	424443
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	20:54	LA	424443
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/30/17	20:54	LA	424443
4,4-DDT	SW8081B	10	1.3	20	5.93	J	ug/Kg	05/30/17	20:54	LA	424443
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/30/17	20:54	LA	424443
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/30/17	20:54	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	109		%	05/30/17	20:54	LA	424443
DCBP (S)	SW8081B		48 - 135	97.1		%	05/30/17	20:54	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4432-N, E, S, W COMP	Lab Sample ID:	1705192-078A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.78		mg/Kg	05/30/17	16:22	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	1.26	J	ug/Kg	05/30/17	21:08	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	37.5		ug/Kg	05/30/17	21:08	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	39.8		ug/Kg	05/30/17	21:08	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	2.07	J	ug/Kg	05/30/17	21:08	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	37.0		ug/Kg	05/30/17	21:08	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	4.96	J	ug/Kg	05/30/17	21:08	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Chlordane	SW8081B	4	8.4	80	327		ug/Kg	05/30/17	21:08	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	21:08	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	99.7		%	05/30/17	21:08	LA	424443
DCBP (S)	SW8081B		48 - 135	71.0		%	05/30/17	21:08	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4434-N, E, S, W COMP	Lab Sample ID:	1705192-079A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.40		mg/Kg	05/30/17	16:40	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	6.38	J	ug/Kg	05/30/17	21:21	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	20.5		ug/Kg	05/30/17	21:21	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	9.13		ug/Kg	05/30/17	21:21	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	21:21	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	21:21	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	97.9		%	05/30/17	21:21	LA	424443
DCBP (S)	SW8081B		48 - 135	76.4		%	05/30/17	21:21	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4436-N, E, S, W COMP	Lab Sample ID:	1705192-080A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.11		mg/Kg	05/30/17	16:44	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	10.1		ug/Kg	05/30/17	21:35	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	21:35	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	21:35	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		92.1		%	05/30/17	21:35	LA	424443
DCBP (S)	SW8081B		48 - 135		78.8		%	05/30/17	21:35	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4438-N, E, S, W COMP	Lab Sample ID:	1705192-081A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.59		mg/Kg	05/30/17	16:48	ERR	424419

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/30/17	21:49	LA	424443
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/30/17	21:49	LA	424443
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/30/17	21:49	LA	424443
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/30/17	21:49	LA	424443
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/30/17	21:49	LA	424443
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/30/17	21:49	LA	424443
4,4-DDE	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Dieldrin	SW8081B	20	3.0	40	67.5		ug/Kg	05/30/17	21:49	LA	424443
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/30/17	21:49	LA	424443
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/30/17	21:49	LA	424443
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/30/17	21:49	LA	424443
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/30/17	21:49	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	0.000	D	%	05/30/17	21:49	LA	424443
DCBP (S)	SW8081B		48 - 135	0.000	D	%	05/30/17	21:49	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4444-N, E, S, W COMP	Lab Sample ID:	1705192-082A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.01		mg/Kg	05/30/17	16:53	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	3.35	J	ug/Kg	05/30/17	22:03	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	17.3		ug/Kg	05/30/17	22:03	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	22:03	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	22:03	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	104		%	05/30/17	22:03	LA	424443
DCBP (S)	SW8081B		48 - 135	76.3		%	05/30/17	22:03	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4446-N, E, S, W COMP	Lab Sample ID:	1705192-083A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.44		mg/Kg	05/30/17	16:57	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	23.5		ug/Kg	05/30/17	22:16	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	5.18	J	ug/Kg	05/30/17	22:16	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	22:16	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	22:16	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	88.5		%	05/30/17	22:16	LA	424443
DCBP (S)	SW8081B		48 - 135	75.7		%	05/30/17	22:16	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



MB Summary Report

Work Order:	1705192	Prep Method:	3546_OCP	Prep Date:	05/26/17	Prep Batch:	7063
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/30/2017	Analytical Batch:	424427
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4-DDE	0.19	2.0	0.383	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			99.7	
DCBP (S)			84.8	

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	05/26/17	Prep Batch:	7076
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424419
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Arsenic	0.21	1.0	ND	



MB Summary Report

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	05/26/17	Prep Batch:	7076
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424441
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Lead	0.054	1.0	0.070		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1705192	Prep Method:	3546_OCP	Prep Date:	05/26/17	Prep Batch:	7063
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/30/2017	Analytical Batch:	424427
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	133	117	12.6	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	125	113	10.3	40 - 130	30	
Aldrin	0.20	2.0	ND	40	130	120	8.00	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	129	115	11.0	60 - 130	30	
Endrin	0.19	2.0	ND	40	122	122	10.3	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	128	113	11.8	45 - 140	30	
TCMX (S)				100	107	101		48 - 125		
DCBP (S)				100	108	104		48 - 135		

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	05/26/17	Prep Batch:	7076
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424419
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	ND	25	105	93.2	11.7	80 - 120	30	
Lead	0.054	1.0	0.070	25	108	111	2.20	80 - 120	30	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1705192	Prep Method:	3546_OCP	Prep Date:	05/26/17	Prep Batch:	7063
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/30/2017	Analytical Batch:	424443
Spiked Sample:	1705192-083A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.636	8.00	ND	40	91.4	92.9	1.36	25 - 135	30	
Heptachlor	0.420	8.00	ND	40	93.0	95.7	2.91	40 - 130	30	
Aldrin	0.780	8.00	ND	40	74.0	80.4	8.41	25 - 140	30	
Dieldrin	0.592	8.00	23.5	40	83.4	107	15.1	60 - 130	30	
Endrin	0.752	8.00	ND	40	91.5	94.5	3.23	55 - 135	30	
4,4-DDT	0.516	8.00	ND	40	95.7	98.7	2.50	45 - 140	30	
TCMX (S)				100	92.7	94.8		48 - 125		
DCBP (S)				100	74.0	85.3		48 - 135		

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	05/26/17	Prep Batch:	7076
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	May 30	Analytical Batch:	424419
Spiked Sample:	1705192-067A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	1.19	25	136	113	17.6	71.0 - 121	30	S



Duplicate QC Summary Report

Work Order:	1705192	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/30/17	Analytical Batch:	424441
Units:						Lab Sample ID:	1705192-068Ax-1-DUP-424441

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Lead	0.054	1.0	4.04	3.92	3.04	

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	5/26/2017	Prep Batch:	7076
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/30/17	Analytical Batch:	424419
Units:						Lab Sample ID:	1705192-073A-DUP-7076

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Arsenic	0.21	1.0	1.27	1.27	0.20	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 5/25/2017 1:10:00PM

Project Name: Fort Ord - Surplus II and Adjacent Area

Received By: NG

Work Order No.: 1705192

Physically Logged By: HU

Checklist Completed By:

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
Shipping Container/Cooler In Good Condition?	<u>Yes</u>
Samples in proper container/bottle?	<u>Yes</u>
Samples containers intact?	<u>Yes</u>
Sufficient sample volume for indicated test?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>
Container/Temp Blank temperature in compliance?	Temperature: 8.0 °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>
Water-pH acceptable upon receipt?	<u>N/A</u>
pH Checked by: N/A	pH Adjusted by: N/A

Comments:



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Fort Ord - Surplus II and Adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/31/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/25/2017
Time Received: 1:10 pm

Comments:

Work Order # : **1705192**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-001A	4483-N	05/24/17 15:19	Soil	11/21/17			Composite	
1705192-002A	4483-E	05/24/17 15:17	Soil	11/21/17			Composite	
1705192-003A	4483-S	05/24/17 15:15	Soil	11/21/17			Composite	
1705192-004A	4483-W	05/24/17 15:20	Soil	11/21/17			Composite	
1705192-005A	4481-N	05/24/17 15:23	Soil	11/21/17			Composite	
1705192-006A	4481-E	05/24/17 15:32	Soil	11/21/17			Composite	
1705192-007A	4481-S	05/24/17 15:31	Soil	11/21/17			Composite	
1705192-008A	4472-N	05/24/17 13:43	Soil	11/21/17			Composite	
1705192-009A	4472-E	05/24/17 13:45	Soil	11/21/17			Composite	
1705192-010A	4472-S	05/24/17 13:47	Soil	11/21/17			Composite	
1705192-011A	4472-W	05/24/17 13:40	Soil	11/21/17			Composite	
1705192-012A	4471-N	05/24/17 14:57	Soil	11/21/17			Composite	
1705192-013A	4471-E	05/24/17 14:55	Soil	11/21/17			Composite	
1705192-014A	4471-S	05/24/17 15:01	Soil	11/21/17			Composite	
1705192-015A	4471-W	05/24/17 14:51	Soil	11/21/17			Composite	
1705192-016A	4469-N	05/24/17 14:46	Soil	11/21/17			Composite	
1705192-017A	4469-E	05/24/17 14:45	Soil	11/21/17			Composite	
1705192-018A	4469-S	05/24/17 14:43	Soil	11/21/17			Composite	
1705192-019A	4469-W	05/24/17 14:48	Soil	11/21/17			Composite	



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Comments:

Work Order # : **1705192**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-020A	4419-N	05/24/17 10:12	Soil	11/21/17			Composite	
1705192-021A	4419-S	05/24/17 10:17	Soil	11/21/17			Composite	
1705192-022A	4419-W	05/24/17 10:14	Soil	11/21/17			Composite	
1705192-023A	4560-N	05/25/17 10:13	Soil	11/21/17			Composite	
1705192-024A	4560-E	05/25/17 10:15	Soil	11/21/17			Composite	
1705192-025A	4560-S	05/25/17 10:17	Soil	11/21/17			Composite	
1705192-026A	4560-W	05/25/17 10:11	Soil	11/21/17			Composite	
1705192-027A	4550-N	05/24/17 15:40	Soil	11/21/17			Composite	
1705192-028A	4550-E	05/24/17 15:38	Soil	11/21/17			Composite	
1705192-029A	4550-S	05/24/17 15:43	Soil	11/21/17			Composite	
1705192-030A	4550-W	05/24/17 15:42	Soil	11/21/17			Composite	
1705192-031A	4440-N	05/25/17 8:58	Soil	11/21/17			Composite	
1705192-032A	4440-E	05/25/17 9:01	Soil	11/21/17			Composite	
1705192-033A	4440-S	05/25/17 9:03	Soil	11/21/17			Composite	
1705192-034A	4440-W	05/25/17 9:05	Soil	11/21/17			Composite	
1705192-035A	4442-N	05/25/17 9:16	Soil	11/21/17			Composite	
1705192-036A	4442-E	05/25/17 9:19	Soil	11/21/17			Composite	
1705192-037A	4442-S	05/25/17 9:21	Soil	11/21/17			Composite	
1705192-038A	4442-W	05/25/17 9:11	Soil	11/21/17			Composite	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Fort Ord - Surplus II and Adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/31/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/25/2017
Time Received: 1:10 pm

Comments:

Work Order # : **1705192**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-039A	4430-N	05/25/17 7:55	Soil	11/21/17			Composite	
1705192-040A	4430-E	05/25/17 7:48	Soil	11/21/17			Composite	
1705192-041A	4430-S	05/25/17 7:50	Soil	11/21/17			Composite	
1705192-042A	4430-W	05/25/17 7:52	Soil	11/21/17			Composite	
1705192-043A	4432-N	05/25/17 8:08	Soil	11/21/17			Composite	
1705192-044A	4432-E	05/25/17 8:00	Soil	11/21/17			Composite	
1705192-045A	4432-S	05/25/17 8:04	Soil	11/21/17			Composite	
1705192-046A	4432-W	05/25/17 8:05	Soil	11/21/17			Composite	
1705192-047A	4434-N	05/25/17 8:24	Soil	11/21/17			Composite	
1705192-048A	4434-E	05/25/17 8:16	Soil	11/21/17			Composite	
1705192-049A	4434-S	05/25/17 8:18	Soil	11/21/17			Composite	
1705192-050A	4434-W	05/25/17 8:21	Soil	11/21/17			Composite	
1705192-051A	4436-N	05/25/17 8:35	Soil	11/21/17			Composite	
1705192-052A	4436-E	05/25/17 8:37	Soil	11/21/17			Composite	
1705192-053A	4436-S	05/25/17 8:30	Soil	11/21/17			Composite	
1705192-054A	4436-W	05/25/17 8:32	Soil	11/21/17			Composite	
1705192-055A	4438-N	05/25/17 8:48	Soil	11/21/17			Composite	
1705192-056A	4438-E	05/25/17 8:42	Soil	11/21/17			Composite	
1705192-057A	4438-S	05/25/17 8:45	Soil	11/21/17			Composite	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Fort Ord - Surplus II and Adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/31/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/25/2017
Time Received: 1:10 pm

Comments:

Work Order # : **1705192**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-058A	4438-W	05/25/17 8:46	Soil	11/21/17			Composite	
1705192-059A	4444-N	05/25/17 9:30	Soil	11/21/17			Composite	
1705192-060A	4444-E	05/25/17 9:36	Soil	11/21/17			Composite	
1705192-061A	4444-S	05/25/17 9:38	Soil	11/21/17			Composite	
1705192-062A	4444-W	05/25/17 9:41	Soil	11/21/17			Composite	
1705192-063A	4446-N	05/25/17 9:50	Soil	11/21/17			Composite	
1705192-064A	4446-E	05/25/17 9:58	Soil	11/21/17			Composite	
1705192-065A	4446-S	05/25/17 10:01	Soil	11/21/17			Composite	
1705192-066A	4446-W	05/25/17 9:47	Soil	11/21/17			Composite	
1705192-067A	4483-N, E, S, W COMP	05/24/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
Sample Note: 6020- As, Pb for -067A, -068A, -072A; As ONLY for all other samples								
1705192-068A	4481-N, E, S COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-069A	4472-N, E, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-070A	4471-N, E, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-071A	4469-N, E, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-072A	4419-N, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	



Login Summary Report

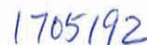
Client ID: TL5123 Engeo (San Ramon)
Project Name: Fort Ord - Surplus II and Adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/31/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/25/2017
Time Received: 1:10 pm

Comments:

Work Order # : **1705192**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-073A	4560-N, E, S, W COMP	05/25/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-074A	4550-N, E, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-075A	4440-N, E, S, W COMP	05/25/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-076A	4442-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-077A	4430-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-078A	4432-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-079A	4434-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-080A	4436-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-081A	4438-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-082A	4444-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-083A	4446-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	

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CHAIN OF CUSTODY RECORD

1705192

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area					OCPs (8081)	Arsenic (6020)	Lead (6020)											REMARKS REQUIRED DETECTION LIMITS
SAMPLED BY: (SIGNATURE/PRINT) <i>[Signature]</i> Travis Chatters																				
PROJECT MANAGER: Scott Johns																				
ROUTING: E-MAIL sjohns@engeo.com Hard Copy NA																				
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE														
020A 4419- N	5/24/17	10:12	Soil	1	Liner/Jar	NA/ICE	X	X	X											3 PT Comp
4419- E			Soil	1	Liner/Jar	NA/ICE	X	X	X											
024A 4419- S	5/21/17	10:17	Soil	1	Liner/Jar	NA/ICE	X	X	X											
022A 4419- W	1	10:14	Soil	1	Liner/Jar	NA/ICE	X	X	X											
023A 4560- N	5/25/17	10:13	Soil	1	Liner/Jar	NA/ICE	X	X	X											4 PT Comp
024A 4560- E		10:15	Soil	1	Liner/Jar	NA/ICE	X	X	X											
025A 4560- S		10:17	Soil	1	Liner/Jar	NA/ICE	X	X	X											
026A 4560- W		10:11	Soil	1	Liner/Jar	NA/ICE	X	X	X											
027A 4550- N	5/24/17	15:40	Soil	1	Liner/Jar	NA/ICE	X	X	X											4 PT Comp
028A 4550- E		15:38	Soil	1	Liner/Jar	NA/ICE	X	X	X											
029A 4550- S		15:43	Soil	1	Liner/Jar	NA/ICE	X	X	X											
030A 4550- W		15:42	Soil	1	Liner/Jar	NA/ICE	X	X	X											
031A 4440- N	5/25/17	8:58	Soil	1	Liner/Jar	NA/ICE	X	X	X											4 PT Comp
032A 4440- E		9:01	Soil	1	Liner/Jar	NA/ICE	X	X	X											
033A 4440- S		9:03	Soil	1	Liner/Jar	NA/ICE	X	X	X											
034A 4440- W		9:05	Soil	1	Liner/Jar	NA/ICE	X	X	X											
035A 4442- N		9:16	Soil	1	Liner/Jar	NA/ICE	X	X	X											4 PT Comp
036A 4442- E		9:19	Soil	1	Liner/Jar	NA/ICE	X	X	X											
037A 4442- S		9:21	Soil	1	Liner/Jar	NA/ICE	X	X	X											
038A 4442- W		9:11	Soil	1	Liner/Jar	NA/ICE	X	X	X											
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 5/15/17 12:00		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 5/25/17 1:10		RECEIVED BY: (SIGNATURE) NAVIN G. [Signature]										
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)										
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS 3 Day TAT Composite samples as noted.												
ENGEO INCORPORATED		6399 SAN IGNACIO AVENUE, SUITE 150 SAN JOSE, CALIFORNIA 95119 (408) 574-4900 FAX (888) 279-2698 WWW.ENGEO.COM										Temp 8°C #1 FC								
DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES																				

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FS

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Engeo Inc (SJ)
6399 San Ignacio Ave, Suite 150
San Jose, California 95119
Tel: 408-574-4900/Scott cell:925-570-5855
Fax: 888-279-2698
RE: Fort Ord - Surplus II Areas

Work Order No.: 1706007

Dear Scott Johns:

Torrent Laboratory, Inc. received 10 sample(s) on June 01, 2017 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Patti L Sandroock", is written over a light blue horizontal line.

Patti L Sandroock
QA Officer

June 06, 2017

Date



Date: 6/6/2017

Client: Engeo Inc (SJ)

Project: Fort Ord - Surplus II Areas

Work Order: 1706007

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-1

1706007-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	5.9	2.3	70	35
2-Butanone (MEK)	ETO15	5.9	2.3	8.7	4.2
Toluene	ETO15	5.9	4.4	11	6.1
2-Hexanone	ETO15	5.9	3.8	12	11
m,p-Xylene	ETO15	5.9	5.8	13	14
o-Xylene	ETO15	5.9	1.8	13	6.9
1,3-Dichlorobenzene	ETO15	5.9	7.9	18	13
TPH-Gasoline	TO-15	5.9	240	1000	298

SG-2

1706007-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Carbon Disulfide	ETO15	3.6	1.3	5.6	2.9
Acetone	ETO15	3.6	1.4	43	110
Hexane	ETO15	3.6	1.7	6.3	7.6
tert-Butanol	ETO15	3.6	2.2	5.5	13
Chloroform	ETO15	3.6	3.5	8.8	17
2-Butanone (MEK)	ETO15	3.6	1.4	5.3	21
Ethyl Acetate	ETO15	3.6	1.7	6.5	3.7
Tetrahydrofuran	ETO15	3.6	1.6	5.3	4.1
Benzene	ETO15	3.6	1.6	5.7	6.1
Toluene	ETO15	3.6	2.7	6.8	12
4-Methyl-2-Pentanone (MIBK)	ETO15	3.6	2.7	7.4	5.6
2-Hexanone	ETO15	3.6	2.3	7.4	13
Ethyl Benzene	ETO15	3.6	2.3	7.8	3.6
m,p-Xylene	ETO15	3.6	3.5	7.8	15
o-Xylene	ETO15	3.6	1.1	7.8	9.4
4-Ethyl Toluene	ETO15	3.6	2.0	8.9	2.6
1,3,5-Trimethylbenzene	ETO15	3.6	1.1	8.9	1.3
1,2,4-Trimethylbenzene	ETO15	3.6	2.1	8.9	3.0
1,3-Dichlorobenzene	ETO15	3.6	4.8	11	14
TPH-Gasoline	TO-15	3.6	150	630	327



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-3

1706007-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.40	12	66
tert-Butanol	ETO15	1	0.62	1.5	15
Chloroform	ETO15	1	0.97	2.4	19
Carbon Tetrachloride	ETO15	1	1.1	3.1	7.4
2-Butanone (MEK)	ETO15	1	0.39	1.5	13
Benzene	ETO15	1	0.44	1.6	2.6
Toluene	ETO15	1	0.75	1.9	7.5
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	6.1
2-Hexanone	ETO15	1	0.65	2.1	6.9
Ethyl Benzene	ETO15	1	0.63	2.2	3.3
m,p-Xylene	ETO15	1	0.98	2.2	13
o-Xylene	ETO15	1	0.30	2.2	8.7
4-Ethyl Toluene	ETO15	1	0.55	2.5	2.8
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	13
TPH-Gasoline	TO-15	1	40	180	615

SG-4

1706007-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.40	12	23
tert-Butanol	ETO15	1	0.62	1.5	2.3
2-Butanone (MEK)	ETO15	1	0.39	1.5	3.9
Toluene	ETO15	1	0.75	1.9	2.0
2-Hexanone	ETO15	1	0.65	2.1	2.1
m,p-Xylene	ETO15	1	0.98	2.2	2.2
o-Xylene	ETO15	1	0.30	2.2	2.3
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	6.3
Naphthalene	ETO15	1	1.3	2.6	2.6
TPH-Gasoline	TO-15	1	40	180	224



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-5

1706007-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
tert-Butanol	ETO15	1	0.62	1.5	12
Chloroform	ETO15	1	0.97	2.4	3.1
2-Butanone (MEK)	ETO15	1	0.39	1.5	3.7
Tetrahydrofuran	ETO15	1	0.45	1.5	2.7
Toluene	ETO15	1	0.75	1.9	26
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	2.2
4-Ethyl Toluene	ETO15	1	0.55	2.5	14
1,3,5-Trimethylbenzene	ETO15	1	0.30	2.5	5.7
1,2,4-Trimethylbenzene	ETO15	1	0.60	2.5	15
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	13
Acetone	ETO15	10	4.0	120	340
Ethyl Benzene	ETO15	10	6.3	22	220
m,p-Xylene	ETO15	10	9.8	22	1100
o-Xylene	ETO15	10	3.0	22	540
TPH-Gasoline	TO-15	1	40	180	1580

SG-6

1706007-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
2-Butanone (MEK)	ETO15	1	0.39	1.5	49
Toluene	ETO15	1	0.75	1.9	6.6
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	5.1
2-Hexanone	ETO15	1	0.65	2.1	13
Ethyl Benzene	ETO15	1	0.63	2.2	26
m,p-Xylene	ETO15	1	0.98	2.2	130
o-Xylene	ETO15	1	0.30	2.2	74
4-Ethyl Toluene	ETO15	1	0.55	2.5	28
1,3,5-Trimethylbenzene	ETO15	1	0.30	2.5	9.0
1,2,4-Trimethylbenzene	ETO15	1	0.60	2.5	25
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	15
Acetone	ETO15	5	2.0	60	250
tert-Butanol	ETO15	5	3.1	7.6	190
Tetrahydrofuran	ETO15	5	2.2	7.4	240
TPH-Gasoline	TO-15	1	40	180	771



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-7

1706007-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.40	12	45
tert-Butanol	ETO15	1	0.62	1.5	6.6
2-Butanone (MEK)	ETO15	1	0.39	1.5	5.9
Tetrahydrofuran	ETO15	1	0.45	1.5	2.4
Toluene	ETO15	1	0.75	1.9	2.6
2-Hexanone	ETO15	1	0.65	2.1	2.3
Ethyl Benzene	ETO15	1	0.63	2.2	21
m,p-Xylene	ETO15	1	0.98	2.2	110
o-Xylene	ETO15	1	0.30	2.2	64
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	9.3
TPH-Gasoline	TO-15	1	40	180	363

SG-8

1706007-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Carbon Disulfide	ETO15	1	0.37	1.6	3.0
Acetone	ETO15	1	0.40	12	52
tert-Butanol	ETO15	1	0.62	1.5	9.7
2-Butanone (MEK)	ETO15	1	0.39	1.5	8.4
Tetrahydrofuran	ETO15	1	0.45	1.5	1.7
Toluene	ETO15	1	0.75	1.9	3.9
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	2.5
2-Hexanone	ETO15	1	0.65	2.1	4.0
Ethyl Benzene	ETO15	1	0.63	2.2	13
m,p-Xylene	ETO15	1	0.98	2.2	59
o-Xylene	ETO15	1	0.30	2.2	37
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	12
TPH-Gasoline	TO-15	1	40	180	275



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-9

1706007-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.40	12	29
tert-Butanol	ETO15	1	0.62	1.5	5.1
2-Butanone (MEK)	ETO15	1	0.39	1.5	5.4
Toluene	ETO15	1	0.75	1.9	3.0
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	2.1
2-Hexanone	ETO15	1	0.65	2.1	3.3
Ethyl Benzene	ETO15	1	0.63	2.2	23
m,p-Xylene	ETO15	1	0.98	2.2	120
o-Xylene	ETO15	1	0.30	2.2	66
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	11
TPH-Gasoline	TO-15	1	40	180	289

SG-10

1706007-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Carbon Disulfide	ETO15	1	0.37	1.6	12
2-Propanol (Isopropyl Alcohol)	ETO15	1	1.3	12	26
Hexane	ETO15	1	0.46	1.8	19
tert-Butanol	ETO15	1	0.62	1.5	15
2-Butanone (MEK)	ETO15	1	0.39	1.5	23
Benzene	ETO15	1	0.44	1.6	14
Toluene	ETO15	1	0.75	1.9	73
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	96
2-Hexanone	ETO15	1	0.65	2.1	16
1,3,5-Trimethylbenzene	ETO15	1	0.30	2.5	10
1,2,4-Trimethylbenzene	ETO15	1	0.60	2.5	34
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	5.7
Acetone	ETO15	50	20	600	2900
Ethyl Benzene	ETO15	50	31	110	1600
m,p-Xylene	ETO15	50	49	110	6600
o-Xylene	ETO15	50	15	110	3200
TPH-Gasoline	TO-15	25	1000	4400	16000



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-1	Lab Sample ID:	1706007-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 12:00	Certified Clean WO # :	
Canister/Tube ID:	6330	Received PSI :	12.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dichlorodifluoromethane	ETO15	5.90	9.3	15	ND	ND		06/06/17	15:47	BA	424559
1,1-Difluoroethane	ETO15	5.90	2.0	80	ND	ND		06/06/17	15:47	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	5.90	170	330	ND	ND		06/06/17	15:47	BA	424559
Chloromethane	ETO15	5.90	12	24	ND	ND		06/06/17	15:47	BA	424559
Vinyl Chloride	ETO15	5.90	1.3	7.6	ND	ND		06/06/17	15:47	BA	424559
1,3-Butadiene	ETO15	5.90	2.0	6.5	ND	ND		06/06/17	15:47	BA	424559
Bromomethane	ETO15	5.90	3.9	11	ND	ND		06/06/17	15:47	BA	424559
Chloroethane	ETO15	5.90	4.8	7.8	ND	ND		06/06/17	15:47	BA	424559
Trichlorofluoromethane	ETO15	5.90	3.3	17	ND	ND		06/06/17	15:47	BA	424559
1,1-Dichloroethene	ETO15	5.90	4.9	12	ND	ND		06/06/17	15:47	BA	424559
Freon 113	ETO15	5.90	6.0	23	ND	ND		06/06/17	15:47	BA	424559
Carbon Disulfide	ETO15	5.90	2.2	9.2	ND	ND		06/06/17	15:47	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	5.90	7.5	73	ND	ND		06/06/17	15:47	BA	424559
Methylene Chloride	ETO15	5.90	4.1	61	ND	ND		06/06/17	15:47	BA	424559
Acetone	ETO15	5.90	2.3	70	35	14.71	J	06/06/17	15:47	BA	424559
trans-1,2-Dichloroethene	ETO15	5.90	2.8	12	ND	ND		06/06/17	15:47	BA	424559
Hexane	ETO15	5.90	2.7	10	ND	ND		06/06/17	15:47	BA	424559
MTBE	ETO15	5.90	2.6	11	ND	ND		06/06/17	15:47	BA	424559
tert-Butanol	ETO15	5.90	3.6	8.9	ND	ND		06/06/17	15:47	BA	424559
Diisopropyl ether (DIPE)	ETO15	5.90	4.3	12	ND	ND		06/06/17	15:47	BA	424559
1,1-Dichloroethane	ETO15	5.90	3.2	12	ND	ND		06/06/17	15:47	BA	424559
ETBE	ETO15	5.90	1.9	12	ND	ND		06/06/17	15:47	BA	424559
cis-1,2-Dichloroethene	ETO15	5.90	4.9	12	ND	ND		06/06/17	15:47	BA	424559
Chloroform	ETO15	5.90	5.7	14	ND	ND		06/06/17	15:47	BA	424559
Vinyl Acetate	ETO15	5.90	4.5	10	ND	ND		06/06/17	15:47	BA	424559
Carbon Tetrachloride	ETO15	5.90	6.5	19	ND	ND		06/06/17	15:47	BA	424559
1,1,1-Trichloroethane	ETO15	5.90	4.7	16	ND	ND		06/06/17	15:47	BA	424559
2-Butanone (MEK)	ETO15	5.90	2.3	8.7	4.2	1.42	J	06/06/17	15:47	BA	424559
Ethyl Acetate	ETO15	5.90	2.8	11	ND	ND		06/06/17	15:47	BA	424559
Tetrahydrofuran	ETO15	5.90	2.6	8.7	ND	ND		06/06/17	15:47	BA	424559
Benzene	ETO15	5.90	2.6	9.4	ND	ND		06/06/17	15:47	BA	424559
TAME	ETO15	5.90	4.0	12	ND	ND		06/06/17	15:47	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-1	Lab Sample ID:	1706007-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 12:00	Certified Clean WO # :	
Canister/Tube ID:	6330	Received PSI :	12.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichloroethane (EDC)	ETO15	5.90	2.5	12	ND	ND		06/06/17	15:47	BA	424559
Trichloroethylene	ETO15	5.90	4.8	16	ND	ND		06/06/17	15:47	BA	424559
1,2-Dichloropropane	ETO15	5.90	4.5	14	ND	ND		06/06/17	15:47	BA	424559
Bromodichloromethane	ETO15	5.90	4.4	20	ND	ND		06/06/17	15:47	BA	424559
1,4-Dioxane	ETO15	5.90	11	21	ND	ND		06/06/17	15:47	BA	424559
trans-1,3-Dichloropropene	ETO15	5.90	6.3	13	ND	ND		06/06/17	15:47	BA	424559
Toluene	ETO15	5.90	4.4	11	6.1	1.62	J	06/06/17	15:47	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	5.90	4.4	12	ND	ND		06/06/17	15:47	BA	424559
cis-1,3-Dichloropropene	ETO15	5.90	2.5	13	ND	ND		06/06/17	15:47	BA	424559
Tetrachloroethylene	ETO15	5.90	8.6	20	ND	ND		06/06/17	15:47	BA	424559
1,1,2-Trichloroethane	ETO15	5.90	3.4	16	ND	ND		06/06/17	15:47	BA	424559
Dibromochloromethane	ETO15	5.90	6.6	25	ND	ND		06/06/17	15:47	BA	424559
1,2-Dibromoethane (EDB)	ETO15	5.90	4.4	23	ND	ND		06/06/17	15:47	BA	424559
2-Hexanone	ETO15	5.90	3.8	12	11	2.68	J	06/06/17	15:47	BA	424559
Ethyl Benzene	ETO15	5.90	3.7	13	ND	ND		06/06/17	15:47	BA	424559
Chlorobenzene	ETO15	5.90	3.5	14	ND	ND		06/06/17	15:47	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	5.90	4.9	20	ND	ND		06/06/17	15:47	BA	424559
m,p-Xylene	ETO15	5.90	5.8	13	14	3.23		06/06/17	15:47	BA	424559
o-Xylene	ETO15	5.90	1.8	13	6.9	1.59	J	06/06/17	15:47	BA	424559
Styrene	ETO15	5.90	2.7	13	ND	ND		06/06/17	15:47	BA	424559
Bromoform	ETO15	5.90	7.7	31	ND	ND		06/06/17	15:47	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	5.90	4.8	20	ND	ND		06/06/17	15:47	BA	424559
4-Ethyl Toluene	ETO15	5.90	3.2	15	ND	ND		06/06/17	15:47	BA	424559
1,3,5-Trimethylbenzene	ETO15	5.90	1.8	15	ND	ND		06/06/17	15:47	BA	424559
1,2,4-Trimethylbenzene	ETO15	5.90	3.5	15	ND	ND		06/06/17	15:47	BA	424559
1,4-Dichlorobenzene	ETO15	5.90	4.4	18	ND	ND		06/06/17	15:47	BA	424559
1,3-Dichlorobenzene	ETO15	5.90	7.9	18	13	2.16	J	06/06/17	15:47	BA	424559
1,2-Dichlorobenzene	ETO15	5.90	6.3	18	ND	ND		06/06/17	15:47	BA	424559
Hexachlorobutadiene	ETO15	5.90	11	31	ND	ND		06/06/17	15:47	BA	424559
1,2,4-Trichlorobenzene	ETO15	5.90	13	22	ND	ND		06/06/17	15:47	BA	424559
Naphthalene	ETO15	5.90	7.5	15	ND	ND		06/06/17	15:47	BA	424559
(S) 4-Bromofluorobenzene	ETO15	5.90	50	150	110 %			06/06/17	15:47	BA	424559

NOTE: Diluted due to matrix interference (suppression of an internal standard in the undiluted analysis).



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-1	Lab Sample ID:	1706007-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 12:00	Certified Clean WO # :	
Canister/Tube ID:	6330	Received PSI :	12.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

TPH-Gasoline	TO-15	5.90	240	1000	298	84.66	J,x	06/06/17	15:47	BA	424559
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NOTE: x - Although gasoline constituents are present, reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-2	Lab Sample ID:	1706007-002A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:15	Certified Clean WO # :	
Canister/Tube ID:	A7463	Received PSI :	13.3
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dichlorodifluoromethane	ETO15	3.60	5.6	8.9	ND	ND		06/06/17	16:13	BA	424559
1,1-Difluoroethane	ETO15	3.60	1.2	49	ND	ND		06/06/17	16:13	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	3.60	100	200	ND	ND		06/06/17	16:13	BA	424559
Chloromethane	ETO15	3.60	7.4	15	ND	ND		06/06/17	16:13	BA	424559
Vinyl Chloride	ETO15	3.60	0.81	4.6	ND	ND		06/06/17	16:13	BA	424559
1,3-Butadiene	ETO15	3.60	1.2	4.0	ND	ND		06/06/17	16:13	BA	424559
Bromomethane	ETO15	3.60	2.4	7.0	ND	ND		06/06/17	16:13	BA	424559
Chloroethane	ETO15	3.60	2.9	4.8	ND	ND		06/06/17	16:13	BA	424559
Trichlorofluoromethane	ETO15	3.60	2.0	10	ND	ND		06/06/17	16:13	BA	424559
1,1-Dichloroethene	ETO15	3.60	3.0	7.1	ND	ND		06/06/17	16:13	BA	424559
Freon 113	ETO15	3.60	3.7	14	ND	ND		06/06/17	16:13	BA	424559
Carbon Disulfide	ETO15	3.60	1.3	5.6	2.9	0.93	J	06/06/17	16:13	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	3.60	4.6	44	ND	ND		06/06/17	16:13	BA	424559
Methylene Chloride	ETO15	3.60	2.5	37	ND	ND		06/06/17	16:13	BA	424559
Acetone	ETO15	3.60	1.4	43	110	46.22		06/06/17	16:13	BA	424559
trans-1,2-Dichloroethene	ETO15	3.60	1.7	7.1	ND	ND		06/06/17	16:13	BA	424559
Hexane	ETO15	3.60	1.7	6.3	7.6	2.16		06/06/17	16:13	BA	424559
MTBE	ETO15	3.60	1.6	6.5	ND	ND		06/06/17	16:13	BA	424559
tert-Butanol	ETO15	3.60	2.2	5.5	13	4.29		06/06/17	16:13	BA	424559
Diisopropyl ether (DIPE)	ETO15	3.60	2.6	7.5	ND	ND		06/06/17	16:13	BA	424559
1,1-Dichloroethane	ETO15	3.60	2.0	7.3	ND	ND		06/06/17	16:13	BA	424559
ETBE	ETO15	3.60	1.2	7.5	ND	ND		06/06/17	16:13	BA	424559
cis-1,2-Dichloroethene	ETO15	3.60	3.0	7.1	ND	ND		06/06/17	16:13	BA	424559
Chloroform	ETO15	3.60	3.5	8.8	17	3.48		06/06/17	16:13	BA	424559
Vinyl Acetate	ETO15	3.60	2.7	6.3	ND	ND		06/06/17	16:13	BA	424559
Carbon Tetrachloride	ETO15	3.60	4.0	11	ND	ND		06/06/17	16:13	BA	424559
1,1,1-Trichloroethane	ETO15	3.60	2.9	9.8	ND	ND		06/06/17	16:13	BA	424559
2-Butanone (MEK)	ETO15	3.60	1.4	5.3	21	7.12		06/06/17	16:13	BA	424559
Ethyl Acetate	ETO15	3.60	1.7	6.5	3.7	1.03	J	06/06/17	16:13	BA	424559
Tetrahydrofuran	ETO15	3.60	1.6	5.3	4.1	1.39	J	06/06/17	16:13	BA	424559
Benzene	ETO15	3.60	1.6	5.7	6.1	1.91		06/06/17	16:13	BA	424559
TAME	ETO15	3.60	2.4	7.5	ND	ND		06/06/17	16:13	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-2	Lab Sample ID:	1706007-002A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:15	Certified Clean WO # :	
Canister/Tube ID:	A7463	Received PSI :	13.3
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichloroethane (EDC)	ETO15	3.60	1.5	7.3	ND	ND		06/06/17	16:13	BA	424559
Trichloroethylene	ETO15	3.60	2.9	9.7	ND	ND		06/06/17	16:13	BA	424559
1,2-Dichloropropane	ETO15	3.60	2.7	8.3	ND	ND		06/06/17	16:13	BA	424559
Bromodichloromethane	ETO15	3.60	2.7	12	ND	ND		06/06/17	16:13	BA	424559
1,4-Dioxane	ETO15	3.60	6.5	13	ND	ND		06/06/17	16:13	BA	424559
trans-1,3-Dichloropropene	ETO15	3.60	3.8	8.2	ND	ND		06/06/17	16:13	BA	424559
Toluene	ETO15	3.60	2.7	6.8	12	3.18		06/06/17	16:13	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	3.60	2.7	7.4	5.6	1.37	J	06/06/17	16:13	BA	424559
cis-1,3-Dichloropropene	ETO15	3.60	1.5	8.2	ND	ND		06/06/17	16:13	BA	424559
Tetrachloroethylene	ETO15	3.60	5.2	12	ND	ND		06/06/17	16:13	BA	424559
1,1,2-Trichloroethane	ETO15	3.60	2.1	9.8	ND	ND		06/06/17	16:13	BA	424559
Dibromochloromethane	ETO15	3.60	4.0	15	ND	ND		06/06/17	16:13	BA	424559
1,2-Dibromoethane (EDB)	ETO15	3.60	2.7	14	ND	ND		06/06/17	16:13	BA	424559
2-Hexanone	ETO15	3.60	2.3	7.4	13	3.17		06/06/17	16:13	BA	424559
Ethyl Benzene	ETO15	3.60	2.3	7.8	3.6	0.83	J	06/06/17	16:13	BA	424559
Chlorobenzene	ETO15	3.60	2.2	8.3	ND	ND		06/06/17	16:13	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	3.60	3.0	12	ND	ND		06/06/17	16:13	BA	424559
m,p-Xylene	ETO15	3.60	3.5	7.8	15	3.46		06/06/17	16:13	BA	424559
o-Xylene	ETO15	3.60	1.1	7.8	9.4	2.17		06/06/17	16:13	BA	424559
Styrene	ETO15	3.60	1.7	7.7	ND	ND		06/06/17	16:13	BA	424559
Bromoform	ETO15	3.60	4.7	19	ND	ND		06/06/17	16:13	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	3.60	2.9	12	ND	ND		06/06/17	16:13	BA	424559
4-Ethyl Toluene	ETO15	3.60	2.0	8.9	2.6	0.53	J	06/06/17	16:13	BA	424559
1,3,5-Trimethylbenzene	ETO15	3.60	1.1	8.9	1.3	0.26	J	06/06/17	16:13	BA	424559
1,2,4-Trimethylbenzene	ETO15	3.60	2.1	8.9	3.0	0.61	J	06/06/17	16:13	BA	424559
1,4-Dichlorobenzene	ETO15	3.60	2.7	11	ND	ND		06/06/17	16:13	BA	424559
1,3-Dichlorobenzene	ETO15	3.60	4.8	11	14	2.33		06/06/17	16:13	BA	424559
1,2-Dichlorobenzene	ETO15	3.60	3.9	11	ND	ND		06/06/17	16:13	BA	424559
Hexachlorobutadiene	ETO15	3.60	6.7	19	ND	ND		06/06/17	16:13	BA	424559
1,2,4-Trichlorobenzene	ETO15	3.60	7.7	13	ND	ND		06/06/17	16:13	BA	424559
Naphthalene	ETO15	3.60	4.6	9.4	ND	ND		06/06/17	16:13	BA	424559
(S) 4-Bromofluorobenzene	ETO15	3.60	50	150	110 %			06/06/17	16:13	BA	424559

NOTE: Diluted due to matrix interference (suppression of an internal standard in the undiluted analysis).



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-2	Lab Sample ID:	1706007-002A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:15	Certified Clean WO # :	
Canister/Tube ID:	A7463	Received PSI :	13.3
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

TPH-Gasoline	TO-15	3.60	150	630	327	92.90	J,x	06/06/17	16:13	BA	424559
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NOTE: x - Although gasoline constituents are present, reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-3	Lab Sample ID:	1706007-003A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:00	Certified Clean WO # :	
Canister/Tube ID:	6328	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	20:29	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	20:29	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	20:29	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	20:29	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	20:29	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	20:29	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	20:29	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	20:29	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	20:29	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	20:29	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	20:29	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	20:29	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	20:29	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	20:29	BA	424559
Acetone	ETO15	1.00	0.40	12	66	27.73		06/05/17	20:29	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	20:29	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	20:29	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	20:29	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	15	4.95		06/05/17	20:29	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	20:29	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	20:29	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	20:29	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	20:29	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	19	3.89		06/05/17	20:29	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	20:29	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	7.4	1.18		06/05/17	20:29	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	20:29	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	13	4.41		06/05/17	20:29	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	20:29	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		06/05/17	20:29	BA	424559
Benzene	ETO15	1.00	0.44	1.6	2.6	0.82		06/05/17	20:29	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	20:29	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	20:29	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-3	Lab Sample ID:	1706007-003A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:00	Certified Clean WO # :	
Canister/Tube ID:	6328	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	20:29	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	20:29	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	20:29	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	20:29	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	20:29	BA	424559
Toluene	ETO15	1.00	0.75	1.9	7.5	1.99		06/05/17	20:29	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	6.1	1.49		06/05/17	20:29	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	20:29	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	20:29	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	20:29	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	20:29	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	20:29	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	6.9	1.68		06/05/17	20:29	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	3.3	0.76		06/05/17	20:29	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	20:29	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	20:29	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	13	3.00		06/05/17	20:29	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	8.7	2.00		06/05/17	20:29	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	20:29	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	20:29	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	20:29	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	2.8	0.57		06/05/17	20:29	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	20:29	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	20:29	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	20:29	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	13	2.16		06/05/17	20:29	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	20:29	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	20:29	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	20:29	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	20:29	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			06/05/17	20:29	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-3	Lab Sample ID:	1706007-003A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000	Certified Clean WO # :	
Date/Time Sampled:	05/31/17 / 17:00	Received PSI :	13.0
Canister/Tube ID:	6328	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	615	174.72	x	06/05/17	20:29	BA	424559

NOTE: x - Although gasoline constituents are present, reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-4	Lab Sample ID:	1706007-004A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 7:45	Certified Clean WO # :	
Canister/Tube ID:	A7549	Received PSI :	13.8
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	20:55	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	20:55	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	20:55	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	20:55	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	20:55	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	20:55	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	20:55	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	20:55	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	20:55	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	20:55	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	20:55	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	20:55	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	20:55	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	20:55	BA	424559
Acetone	ETO15	1.00	0.40	12	23	9.66		06/05/17	20:55	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	20:55	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	20:55	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	20:55	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	2.3	0.76		06/05/17	20:55	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	20:55	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	20:55	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	20:55	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	20:55	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	20:55	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	20:55	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	20:55	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	20:55	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	3.9	1.32		06/05/17	20:55	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	20:55	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		06/05/17	20:55	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	20:55	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	20:55	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	20:55	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-4	Lab Sample ID:	1706007-004A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 7:45	Certified Clean WO # :	
Canister/Tube ID:	A7549	Received PSI :	13.8
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	20:55	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	20:55	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	20:55	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	20:55	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	20:55	BA	424559
Toluene	ETO15	1.00	0.75	1.9	2.0	0.53		06/05/17	20:55	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		06/05/17	20:55	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	20:55	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	20:55	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	20:55	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	20:55	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	20:55	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	2.1	0.51		06/05/17	20:55	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		06/05/17	20:55	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	20:55	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	20:55	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	2.2	0.51		06/05/17	20:55	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	2.3	0.53		06/05/17	20:55	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	20:55	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	20:55	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	20:55	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/05/17	20:55	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	20:55	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	20:55	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	20:55	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	6.3	1.05		06/05/17	20:55	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	20:55	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	20:55	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	20:55	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	2.6	0.50		06/05/17	20:55	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	100 %			06/05/17	20:55	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-4	Lab Sample ID:	1706007-004A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 7:45	Certified Clean WO # :	
Canister/Tube ID:	A7549	Received PSI :	13.8
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO
Prep Batch ID: 7261

Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	224	63.64	x	06/05/17	20:55	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-5	Lab Sample ID:	1706007-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 11:10	Certified Clean WO # :	
Canister/Tube ID:	6324	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	21:24	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	21:24	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	21:24	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	21:24	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	21:24	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	21:24	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	21:24	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	21:24	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	21:24	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	21:24	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	21:24	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	21:24	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	21:24	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	21:24	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	21:24	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	21:24	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	21:24	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	12	3.96		06/05/17	21:24	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	21:24	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	21:24	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	21:24	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	21:24	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	3.1	0.64		06/05/17	21:24	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	21:24	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	21:24	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	21:24	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	3.7	1.25		06/05/17	21:24	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	21:24	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	2.7	0.92		06/05/17	21:24	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	21:24	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	21:24	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	21:24	BA	424559
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	21:24	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-5	Lab Sample ID:	1706007-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 11:10	Certified Clean WO # :	
Canister/Tube ID:	6324	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	21:24	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	21:24	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	21:24	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	21:24	BA	424559
Toluene	ETO15	1.00	0.75	1.9	26	6.90		06/05/17	21:24	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	2.2	0.54		06/05/17	21:24	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	21:24	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	21:24	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	21:24	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	21:24	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	21:24	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		06/05/17	21:24	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	21:24	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	21:24	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	21:24	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	21:24	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	21:24	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	14	2.85		06/05/17	21:24	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	5.7	1.16		06/05/17	21:24	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	15	3.05		06/05/17	21:24	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	21:24	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	13	2.16		06/05/17	21:24	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	21:24	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	21:24	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	21:24	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	21:24	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	95 %			06/05/17	21:24	BA	424559

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-5	Lab Sample ID:	1706007-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 11:10	Certified Clean WO # :	
Canister/Tube ID:	6324	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	10.00	4.0	120	340	142.86		06/06/17	13:51	BA	424559
Ethyl Benzene	ETO15	10.00	6.3	22	220	50.69		06/06/17	13:51	BA	424559
m,p-Xylene	ETO15	10.00	9.8	22	1100	253.46		06/06/17	13:51	BA	424559
o-Xylene	ETO15	10.00	3.0	22	540	124.42		06/06/17	13:51	BA	424559
(S) 4-Bromofluorobenzene	ETO15	10.00	50	150	110 %			06/06/17	13:51	BA	424559

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	1580	448.86	x	06/05/17	21:24	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-6	Lab Sample ID:	1706007-006A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 10:00	Certified Clean WO # :	
Canister/Tube ID:	N1435	Received PSI :	12.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	22:10	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	22:10	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	22:10	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	22:10	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	22:10	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	22:10	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	22:10	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	22:10	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	22:10	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	22:10	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	22:10	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	22:10	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	22:10	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	22:10	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	22:10	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	22:10	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	22:10	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	22:10	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	22:10	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	22:10	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	22:10	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	22:10	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	22:10	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	22:10	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	22:10	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	49	16.61		06/05/17	22:10	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	22:10	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	22:10	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	22:10	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	22:10	BA	424559
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	22:10	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	22:10	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	22:10	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-6	Lab Sample ID:	1706007-006A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 10:00	Certified Clean WO # :	
Canister/Tube ID:	N1435	Received PSI :	12.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	22:10	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	22:10	BA	424559
Toluene	ETO15	1.00	0.75	1.9	6.6	1.75		06/05/17	22:10	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	5.1	1.24		06/05/17	22:10	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	22:10	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	22:10	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	22:10	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	22:10	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	22:10	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	13	3.17		06/05/17	22:10	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	26	5.99		06/05/17	22:10	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	22:10	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	22:10	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	130	29.95		06/05/17	22:10	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	74	17.05		06/05/17	22:10	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	22:10	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	22:10	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	22:10	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	28	5.69		06/05/17	22:10	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	9.0	1.83		06/05/17	22:10	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	25	5.08		06/05/17	22:10	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	22:10	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	15	2.50		06/05/17	22:10	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	22:10	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	22:10	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	22:10	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	22:10	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	100 %			06/05/17	22:10	BA	424559

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-6	Lab Sample ID:	1706007-006A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 10:00	Certified Clean WO # :	
Canister/Tube ID:	N1435	Received PSI :	12.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	5.00	2.0	60	250	105.04		06/06/17	14:28	BA	424559
tert-Butanol	ETO15	5.00	3.1	7.6	190	62.71		06/06/17	14:28	BA	424559
Tetrahydrofuran	ETO15	5.00	2.2	7.4	240	81.36		06/06/17	14:28	BA	424559
(S) 4-Bromofluorobenzene	ETO15	5.00	50	150	110 %			06/06/17	14:28	BA	424559

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	771	219.03	x	06/05/17	22:10	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-7	Lab Sample ID:	1706007-007A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 9:15	Certified Clean WO # :	
Canister/Tube ID:	6321	Received PSI :	11.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	22:41	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	22:41	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	22:41	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	22:41	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	22:41	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	22:41	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	22:41	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	22:41	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	22:41	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	22:41	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	22:41	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	22:41	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	22:41	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	22:41	BA	424559
Acetone	ETO15	1.00	0.40	12	45	18.91		06/05/17	22:41	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	22:41	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	22:41	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	22:41	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	6.6	2.18		06/05/17	22:41	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	22:41	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	22:41	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	22:41	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	22:41	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	22:41	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	22:41	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	22:41	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	22:41	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	5.9	2.00		06/05/17	22:41	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	22:41	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	2.4	0.81		06/05/17	22:41	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	22:41	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	22:41	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	22:41	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-7	Lab Sample ID:	1706007-007A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 9:15	Certified Clean WO # :	
Canister/Tube ID:	6321	Received PSI :	11.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	22:41	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	22:41	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	22:41	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	22:41	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	22:41	BA	424559
Toluene	ETO15	1.00	0.75	1.9	2.6	0.69		06/05/17	22:41	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		06/05/17	22:41	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	22:41	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	22:41	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	22:41	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	22:41	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	22:41	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	2.3	0.56		06/05/17	22:41	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	21	4.84		06/05/17	22:41	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	22:41	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	22:41	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	110	25.35		06/05/17	22:41	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	64	14.75		06/05/17	22:41	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	22:41	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	22:41	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	22:41	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/05/17	22:41	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	22:41	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	22:41	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	22:41	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	9.3	1.55		06/05/17	22:41	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	22:41	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	22:41	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	22:41	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	22:41	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			06/05/17	22:41	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-7	Lab Sample ID:	1706007-007A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000	Certified Clean WO # :	
Date/Time Sampled:	06/01/17 / 9:15	Received PSI :	11.5
Canister/Tube ID:	6321	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-GRO
Prep Batch ID: 7261

Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	363	103.13	x	06/05/17	22:41	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-8	Lab Sample ID:	1706007-008A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 9:25	Certified Clean WO # :	
Canister/Tube ID:	A7465	Received PSI :	11.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	23:20	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	23:20	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	23:20	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	23:20	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	23:20	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	23:20	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	23:20	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	23:20	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	23:20	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	23:20	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	23:20	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	3.0	0.96		06/05/17	23:20	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	23:20	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	23:20	BA	424559
Acetone	ETO15	1.00	0.40	12	52	21.85		06/05/17	23:20	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	23:20	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	23:20	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	23:20	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	9.7	3.20		06/05/17	23:20	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	23:20	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	23:20	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	23:20	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	23:20	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	23:20	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	23:20	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	23:20	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	23:20	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	8.4	2.85		06/05/17	23:20	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	23:20	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	1.7	0.58		06/05/17	23:20	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	23:20	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	23:20	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	23:20	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-8	Lab Sample ID:	1706007-008A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 9:25	Certified Clean WO # :	
Canister/Tube ID:	A7465	Received PSI :	11.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	23:20	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	23:20	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	23:20	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	23:20	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	23:20	BA	424559
Toluene	ETO15	1.00	0.75	1.9	3.9	1.03		06/05/17	23:20	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	2.5	0.61		06/05/17	23:20	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	23:20	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	23:20	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	23:20	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	23:20	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	23:20	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	4.0	0.98		06/05/17	23:20	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	13	3.00		06/05/17	23:20	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	23:20	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	23:20	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	59	13.59		06/05/17	23:20	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	37	8.53		06/05/17	23:20	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	23:20	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	23:20	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	23:20	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/05/17	23:20	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	23:20	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	23:20	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	23:20	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	12	2.00		06/05/17	23:20	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	23:20	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	23:20	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	23:20	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	23:20	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			06/05/17	23:20	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-8	Lab Sample ID:	1706007-008A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000	Certified Clean WO # :	
Date/Time Sampled:	06/01/17 / 9:25	Received PSI :	11.0
Canister/Tube ID:	A7465	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-GRO

Prep Batch Date/Time: 6/5/17 1:34:00PM

Prep Batch ID: 7261

Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	275	78.13	x	06/05/17	23:20	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-9	Lab Sample ID:	1706007-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:30	Certified Clean WO # :	
Canister/Tube ID:	6332	Received PSI :	13.2
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	23:47	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	23:47	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	23:47	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	23:47	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	23:47	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	23:47	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	23:47	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	23:47	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	23:47	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	23:47	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	23:47	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	23:47	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	23:47	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	23:47	BA	424559
Acetone	ETO15	1.00	0.40	12	29	12.18		06/05/17	23:47	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	23:47	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	23:47	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	23:47	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	5.1	1.68		06/05/17	23:47	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	23:47	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	23:47	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	23:47	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	23:47	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	23:47	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	23:47	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	23:47	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	23:47	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	5.4	1.83		06/05/17	23:47	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	23:47	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		06/05/17	23:47	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	23:47	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	23:47	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	23:47	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-9	Lab Sample ID:	1706007-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:30	Certified Clean WO # :	
Canister/Tube ID:	6332	Received PSI :	13.2
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	23:47	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	23:47	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	23:47	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	23:47	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	23:47	BA	424559
Toluene	ETO15	1.00	0.75	1.9	3.0	0.80		06/05/17	23:47	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	2.1	0.51		06/05/17	23:47	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	23:47	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	23:47	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	23:47	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	23:47	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	23:47	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	3.3	0.80		06/05/17	23:47	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	23	5.30		06/05/17	23:47	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	23:47	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	23:47	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	120	27.65		06/05/17	23:47	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	66	15.21		06/05/17	23:47	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	23:47	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	23:47	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	23:47	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/05/17	23:47	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	23:47	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	23:47	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	23:47	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	11	1.83		06/05/17	23:47	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	23:47	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	23:47	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	23:47	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	23:47	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			06/05/17	23:47	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-9	Lab Sample ID:	1706007-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:30	Certified Clean WO # :	
Canister/Tube ID:	6332	Received PSI :	13.2
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	289	82.10	x	06/05/17	23:47	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-10	Lab Sample ID:	1706007-010A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:40	Certified Clean WO # :	
Canister/Tube ID:	N1430	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/06/17	0:16	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/06/17	0:16	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/06/17	0:16	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/06/17	0:16	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/06/17	0:16	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/06/17	0:16	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/06/17	0:16	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/06/17	0:16	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/06/17	0:16	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/06/17	0:16	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/06/17	0:16	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	12	3.86		06/06/17	0:16	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	26	10.57		06/06/17	0:16	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/06/17	0:16	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/06/17	0:16	BA	424559
Hexane	ETO15	1.00	0.46	1.8	19	5.40		06/06/17	0:16	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/06/17	0:16	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	15	4.95		06/06/17	0:16	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/06/17	0:16	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/06/17	0:16	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/06/17	0:16	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/06/17	0:16	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/06/17	0:16	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/06/17	0:16	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/06/17	0:16	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/06/17	0:16	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	23	7.80		06/06/17	0:16	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/06/17	0:16	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		06/06/17	0:16	BA	424559
Benzene	ETO15	1.00	0.44	1.6	14	4.39		06/06/17	0:16	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/06/17	0:16	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/06/17	0:16	BA	424559
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/06/17	0:16	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-10	Lab Sample ID:	1706007-010A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:40	Certified Clean WO # :	
Canister/Tube ID:	N1430	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/06/17	0:16	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/06/17	0:16	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/06/17	0:16	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/06/17	0:16	BA	424559
Toluene	ETO15	1.00	0.75	1.9	73	19.36		06/06/17	0:16	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	96	23.41		06/06/17	0:16	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/06/17	0:16	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/06/17	0:16	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/06/17	0:16	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/06/17	0:16	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/06/17	0:16	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	16	3.90		06/06/17	0:16	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/06/17	0:16	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/06/17	0:16	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/06/17	0:16	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/06/17	0:16	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/06/17	0:16	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/06/17	0:16	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	10	2.03		06/06/17	0:16	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	34	6.91		06/06/17	0:16	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/06/17	0:16	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	5.7	0.95		06/06/17	0:16	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/06/17	0:16	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/06/17	0:16	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/06/17	0:16	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/06/17	0:16	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	93 %			06/06/17	0:16	BA	424559

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-10	Lab Sample ID:	1706007-010A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:40	Certified Clean WO # :	
Canister/Tube ID:	N1430	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	50.00	20	600	2900	1,218.49		06/06/17	15:18	BA	424559
Ethyl Benzene	ETO15	50.00	31	110	1600	368.66		06/06/17	15:18	BA	424559
m,p-Xylene	ETO15	50.00	49	110	6600	1,520.74		06/06/17	15:18	BA	424559
o-Xylene	ETO15	50.00	15	110	3200	737.33		06/06/17	15:18	BA	424559
(S) 4-Bromofluorobenzene	ETO15	50.00	50	150	110 %			06/06/17	15:18	BA	424559

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	25.00	1000	4400	16000	4,545.45	x	06/06/17	14:53	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



MB Summary Report

Work Order:	1706007	Prep Method:	TO15-P	Prep Date:	06/05/17	Prep Batch:	7242
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.32	0.50	ND	
1,1-Difluoroethane	0.13	5.0	ND	
1,2-Dichlorotetrafluoroethane	4.0	8.0	ND	
Chloromethane	0.99	2.0	ND	
Vinyl Chloride	0.088	0.50	ND	
1,3-Butadiene	0.15	0.50	ND	
Bromomethane	0.17	0.50	ND	
Chloroethane	0.31	0.50	ND	
Trichlorofluoromethane	0.099	0.50	ND	
1,1-Dichloroethene	0.21	0.50	ND	
Freon 113	0.13	0.50	ND	
Carbon Disulfide	0.12	0.50	ND	
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND	
Methylene Chloride	0.20	3.0	ND	
Acetone	0.17	5.0	0.45	
trans-1,2-Dichloroethene	0.12	0.50	ND	
Hexane	0.13	0.50	ND	
MTBE	0.12	0.50	ND	
tert-Butanol	0.20	0.50	ND	
Diisopropyl ether (DIPE)	0.18	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
ETBE	0.078	0.50	ND	
cis-1,2-Dichloroethene	0.21	0.50	ND	
Chloroform	0.20	0.50	ND	
Vinyl Acetate	0.22	0.50	ND	
Carbon Tetrachloride	0.18	0.50	ND	
1,1,1-Trichloroethane	0.15	0.50	ND	
2-Butanone (MEK)	0.13	0.50	ND	
Ethyl Acetate	0.13	0.50	ND	
Tetrahydrofuran	0.15	0.50	ND	
Benzene	0.14	0.50	ND	
TAME	0.16	0.50	ND	
1,2-Dichloroethane (EDC)	0.10	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
1,2-Dichloropropane	0.17	0.50	ND	
Bromodichloromethane	0.11	0.50	ND	
1,4-Dioxane	0.50	1.0	ND	
trans-1,3-Dichloropropene	0.23	0.50	ND	
Toluene	0.20	0.50	0.43	
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	0.24	
cis-1,3-Dichloropropene	0.093	0.50	ND	
Tetrachloroethylene	0.22	0.50	ND	



MB Summary Report

Work Order:	1706007	Prep Method:	TO15-P	Prep Date:	06/05/17	Prep Batch:	7242
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
(S) 4-Bromofluorobenzene			110	

Work Order:	1706007	Prep Method:	TO15-GRO	Prep Date:	06/05/17	Prep Batch:	7261
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH-Gasoline	11	50	17	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1706007	Prep Method:	TO15-P	Prep Date:	06/05/17	Prep Batch:	7242
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	101	102	0.865	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	111	109	1.71	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	105	102	3.02	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	102	105	3.75	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	105	103	1.81	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	82.9	87.8		50 - 150		

Work Order:	1706007	Prep Method:	TO15-GRO	Prep Date:	06/05/17	Prep Batch:	7261
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH-Gasoline	11	50	17	500	130	108	18.5	65 - 135	30	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H - Indicates that the recommended holding time for the analyte or compound has been exceeded
J - Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R - The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S - Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Engeo Inc (SJ)

Date and Time Received: 6/1/2017 3:00:00PM

Project Name: Fort Ord - Surplus II Areas

Received By: ke

Work Order No.: 1706007

Physically Logged By: Navin Ghodasara

Checklist Completed By:

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
Shipping Container/Cooler In Good Condition?	<u>Yes</u>
Samples in proper container/bottle?	<u>Yes</u>
Samples containers intact?	<u>Yes</u>
Sufficient sample volume for indicated test?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>	
Container/Temp Blank temperature in compliance?		Temperature: °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>	
Water-pH acceptable upon receipt?	<u>N/A</u>	
pH Checked by: <u>na</u>	pH Adjusted by: <u>na</u>	

Comments:



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)

Project Name: Fort Ord - Surplus II Areas

Project # : 13847.000.000

Report Due Date: 6/6/2017

QC Level: II

TAT Requested: 3 Day Std:3

Date Received: 6/1/2017

Time Received: 3:00 pm

Comments:

Work Order # : **1706007**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1706007-001A	SG-1	06/01/17 12:00	Air				VOC_A_TO15GRO VOC_A_TO15	
Sample Note: Std 3 Day TAT. TO-15, TPHg including Napthalene.								
1706007-002A	SG-2	05/31/17 17:15	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-003A	SG-3	05/31/17 17:00	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-004A	SG-4	06/01/17 7:45	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-005A	SG-5	06/01/17 11:10	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-006A	SG-6	06/01/17 10:00	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-007A	SG-7	06/01/17 9:15	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-008A	SG-8	06/01/17 9:25	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-009A	SG-9	06/01/17 8:30	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-010A	SG-10	06/01/17 8:40	Air				VOC_A_TO15 VOC_A_TO15GRO	

1706007

PROJECT NUMBER		PROJECT NAME		REMARKS					
SAMPLED BY: (SIGNATURE/PRINT)		PROJECT MANAGER: (SIGNATURE/PRINT)		REQUIRED DETECTION LIMITS					
ROUTING: E-MAIL		HARD COPY							
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE			
SG-1	6-1-17	12:00	Vapor	1	1L	X			
SG-2	5-31-17	17:15				X			
SG-3	5-31-17	17:00				X			
SG-4	6-1-17	7:45				X			
SG-5		11:10				X			
SG-6		10:00				X			
SG-7		9:15				X			
SG-8		9:25				X			
SG-9		8:30				X			
SG-10		8:40				X			
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS	

EN GEO
INCORPORATED

2010 CROW CANYON PLACE SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

Ambient temp
D/OFF

TO-15 to include TPHg, VOCs & Naphthalene
standard TAT

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES



Engeo Inc (SJ)
6399 San Ignacio Ave, Suite 150
San Jose, California 95119
Tel: 408-574-4900/Scott cell:925-570-5855
Fax: 888-279-2698
RE: Fort Ord - Surplus II Areas

Work Order No.: 1706009

Dear Scott Johns:

Torrent Laboratory, Inc. received 12 sample(s) on June 01, 2017 for the analyses presented in the following Report.

As instructed on the Chain of Custody, nine samples were placed on hold.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Patti L Sandroock", is written over a light blue horizontal line.

Patti L Sandroock
QA Officer

June 06, 2017

Date



Date: 6/6/2017

Client: Engeo Inc (SJ)

Project: Fort Ord - Surplus II Areas

Work Order: 1706009

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

S1 @ 10'

1706009-001

Parameters:

Analysis
Method

DF

MDL

PQL

Results

Unit

All compounds were non-detectable for this sample.

S2 @ 5'

1706009-005

Parameters:

Analysis
Method

DF

MDL

PQL

Results

Unit

TPH as Diesel (SG)

SW8015B

1

0.85

2.0

2.56

mg/Kg

S3 @ 5'

1706009-009

Parameters:

Analysis
Method

DF

MDL

PQL

Results

Unit

TPH as Diesel (SG)

SW8015B

1

0.85

2.0

3.14

mg/Kg



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S1 @ 10'	Lab Sample ID:	1706009-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 14:20		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 6/5/17 2:12:00PM
Prep Batch ID: 7225	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	06/05/17	19:38	mk	424572
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	06/05/17	19:38	mk	424572
			Acceptance Limits								
Pentacosane (S)	SW8015B		59 - 129		85.9		%	06/05/17	19:38	mk	424572

Prep Method: 5035	Prep Batch Date/Time: 6/2/17 5:26:00PM
Prep Batch ID: 7207	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	06/03/17	4:20	BP	424532
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
TAME	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S1 @ 10'	Lab Sample ID:	1706009-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 14:20		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 6/2/17 5:26:00PM
Prep Batch ID: 7207	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	4:20	BP	424532
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	4:20	BP	424532



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S1 @ 10'	Lab Sample ID:	1706009-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 14:20		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 6/2/17 5:26:00PM
Prep Batch ID: 7207	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
2-Butanone (MEK)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
(S) Dibromofluoromethane	SW8260B		59.8 - 148		78.6		%	06/03/17	4:20	BP	424532
(S) Toluene-d8	SW8260B		55.2 - 133		146	S	%	06/03/17	4:20	BP	424532
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		125		%	06/03/17	4:20	BP	424532

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 6/2/17 5:26:00PM
Prep Batch ID: 7208	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	06/03/17	4:20	BP	424532
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		66.0		%	06/03/17	4:20	BP	424532



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S2 @ 5'	Lab Sample ID:	1706009-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 11:10		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 6/5/17 2:12:00PM
Prep Batch ID: 7225	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.56	x	mg/Kg	06/05/17	20:01	mk	424572
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	06/05/17	20:01	mk	424572
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		92.7		%	06/05/17	20:01	mk	424572

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7246	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	06/03/17	15:06	BP	424562
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
TAME	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S2 @ 5'	Lab Sample ID:	1706009-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 11:10		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7246	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	15:06	BP	424562
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S2 @ 5'	Lab Sample ID:	1706009-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 11:10		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	6/3/17 11:24:00AM
Prep Batch ID:	7246	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
2-Butanone (MEK)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
(S) Dibromofluoromethane	SW8260B		59.8 - 148		77.1		%	06/03/17	15:06	BP	424562
(S) Toluene-d8	SW8260B		55.2 - 133		143	S	%	06/03/17	15:06	BP	424562
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		130		%	06/03/17	15:06	BP	424562

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method:	5035GRO	Prep Batch Date/Time:	6/3/17 11:24:00AM
Prep Batch ID:	7247	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	06/03/17	15:06	BP	424562
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		64.5		%	06/03/17	15:06	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S3 @ 5'	Lab Sample ID:	1706009-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 17:10		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 6/5/17 2:12:00PM
Prep Batch ID: 7225	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.14	x	mg/Kg	06/05/17	20:24	mk	424572
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	06/05/17	20:24	mk	424572
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		95.6		%	06/05/17	20:24	mk	424572

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7246	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	06/03/17	15:42	BP	424562
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
TAME	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S3 @ 5'	Lab Sample ID:	1706009-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 17:10		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7246	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	15:42	BP	424562
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S3 @ 5'	Lab Sample ID:	1706009-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 17:10		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7246	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
2-Butanone (MEK)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
(S) Dibromofluoromethane	SW8260B		59.8 - 148		75.1		%	06/03/17	15:42	BP	424562
(S) Toluene-d8	SW8260B		55.2 - 133		138	S	%	06/03/17	15:42	BP	424562
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		125		%	06/03/17	15:42	BP	424562

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7247	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	06/03/17	15:42	BP	424562
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		72.8		%	06/03/17	15:42	BP	424562



MB Summary Report

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/02/17	Prep Batch:	7207
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/2/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
tert-Butanol	12	50	ND	
Diisopropyl ether (DIPE)	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
ETBE	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethylene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethyl Benzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	



MB Summary Report

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/02/17	Prep Batch:	7207
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/2/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Styrene	1.6	10	ND	
Bromoform	1.7	10	ND	
Isopropyl Benzene	1.6	10	ND	
n-Propylbenzene	1.6	10	ND	
Bromobenzene	1.8	10	ND	
1,1,2,2-Tetrachloroethane	1.9	10	ND	
2-Chlorotoluene	1.8	10	ND	
1,3,5-Trimethylbenzene	1.6	10	ND	
1,2,3-Trichloropropane	1.9	10	ND	
4-Chlorotoluene	1.6	10	ND	
tert-Butylbenzene	1.6	10	ND	
1,2,4-Trimethylbenzene	1.4	10	ND	
sec-Butyl Benzene	1.6	10	ND	
p-Isopropyltoluene	1.5	10	ND	
1,3-Dichlorobenzene	1.7	10	ND	
1,4-Dichlorobenzene	1.7	10	ND	
n-Butylbenzene	1.5	10	ND	
1,2-Dichlorobenzene	1.8	10	ND	
1,2-Dibromo-3-Chloropropane	1.8	10	ND	
Hexachlorobutadiene	1.4	10	1.4	
1,2,4-Trichlorobenzene	1.5	10	1.5	
Naphthalene	1.7	10	2.0	
1,2,3-Trichlorobenzene	1.7	10	2.5	
2-Butanone (MEK)	1.7	10	ND	
(S) Dibromofluoromethane			78.3	
(S) Toluene-d8			130	
(S) 4-Bromofluorobenzene			127	

Work Order:	1706009	Prep Method:	5035GRO	Prep Date:	06/02/17	Prep Batch:	7208
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/2/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	43	100	ND	
(S) 4-Bromofluorobenzene			92.4	



MB Summary Report

Work Order:	1706009	Prep Method:	3546_TPHSG	Prep Date:	06/05/17	Prep Batch:	7225
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	6/5/2017	Analytical Batch:	424572
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Diesel (SG)	0.85	2.0	ND		
TPH as Motor Oil (SG)	3.2	10	ND		
Pentacosane (S)			81.0		



MB Summary Report

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/03/17	Prep Batch:	7246
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
tert-Butanol	12	50	ND	
Diisopropyl ether (DIPE)	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
ETBE	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethylene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethyl Benzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	



MB Summary Report

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/03/17	Prep Batch:	7246
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Styrene	1.6	10	ND	
Bromoform	1.7	10	ND	
Isopropyl Benzene	1.6	10	ND	
n-Propylbenzene	1.6	10	ND	
Bromobenzene	1.8	10	ND	
1,1,2,2-Tetrachloroethane	1.9	10	ND	
2-Chlorotoluene	1.8	10	ND	
1,3,5-Trimethylbenzene	1.6	10	ND	
1,2,3-Trichloropropane	1.9	10	ND	
4-Chlorotoluene	1.6	10	ND	
tert-Butylbenzene	1.6	10	ND	
1,2,4-Trimethylbenzene	1.4	10	ND	
sec-Butyl Benzene	1.6	10	ND	
p-Isopropyltoluene	1.5	10	ND	
1,3-Dichlorobenzene	1.7	10	ND	
1,4-Dichlorobenzene	1.7	10	ND	
n-Butylbenzene	1.5	10	ND	
1,2-Dichlorobenzene	1.8	10	ND	
1,2-Dibromo-3-Chloropropane	1.8	10	ND	
Hexachlorobutadiene	1.4	10	1.6	
1,2,4-Trichlorobenzene	1.5	10	ND	
Naphthalene	1.7	10	2.0	
1,2,3-Trichlorobenzene	1.7	10	2.4	
2-Butanone (MEK)	1.7	10	ND	
(S) Dibromofluoromethane			75.4	
(S) Toluene-d8			133	S
(S) 4-Bromofluorobenzene			123	

Work Order:	1706009	Prep Method:	5035GRO	Prep Date:	06/03/17	Prep Batch:	7247
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	43	100	ND	
(S) 4-Bromofluorobenzene			74.8	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/02/17	Prep Batch:	7207
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/2/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	130	132	1.83	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	118	111	5.59	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	86.0	79.9	7.23	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	123	121	1.80	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	95.5	90.8	4.94	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	84.1	78.5		59.8 - 148		
(S) Toluene-d8				50.0	118	109		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	125	121		55.8 - 141		
2-Butanone (MEK)			ND					-		

Work Order:	1706009	Prep Method:	5035GRO	Prep Date:	06/02/17	Prep Batch:	7208
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	43	100	ND	1000	101	91.3	10.1	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	82.7	80.2		43.9 - 127		

Work Order:	1706009	Prep Method:	3546_TPHSG	Prep Date:	06/05/17	Prep Batch:	7225
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	6/6/2017	Analytical Batch:	424572
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	ND	25.0	68.3	83.3		52 - 115	30	
TPH as Motor Oil (SG)			ND	200				59 - 129		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/03/17	Prep Batch:	7246
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	117	121	3.03	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	104	104	0.000	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	74.2	74.5	0.538	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	114	121	5.96	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	85.0	104	20.1	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	75.0	71.5		59.8 - 148		
(S) Toluene-d8				50.0	113	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	120	115		55.8 - 141		
2-Butanone (MEK)			ND					-		

Work Order:	1706009	Prep Method:	5035GRO	Prep Date:	06/03/17	Prep Batch:	7247
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/5/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	43	100	ND	1000	95.1	99.4	4.42	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	79.4	85.8		43.9 - 127		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H - Indicates that the recommended holding time for the analyte or compound has been exceeded
J - Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R - The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S - Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Engeo Inc (SJ)

Date and Time Received: 6/1/2017 3:00:00PM

Project Name: Fort Ord - Surplus II Areas

Received By: ke

Work Order No.: 1706009

Physically Logged By: Navin Ghodasara

Checklist Completed By:

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
Shipping Container/Cooler In Good Condition?	<u>Yes</u>
Samples in proper container/bottle?	<u>Yes</u>
Samples containers intact?	<u>Yes</u>
Sufficient sample volume for indicated test?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>
Container/Temp Blank temperature in compliance?	Temperature: <u>2.0</u> °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>
Water-pH acceptable upon receipt?	<u>N/A</u>
pH Checked by: <u>na</u>	pH Adjusted by: <u>na</u>

Comments:



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)

QC Level: II

Project Name: Fort Ord - Surplus II Areas

TAT Requested: 3 Day Std:3

Project # :

Date Received: 6/1/2017

Report Due Date: 6/6/2017

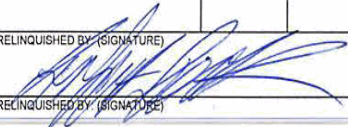
Time Received: 3:00 pm

Comments:

Work Order # : 1706009

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1706009-001A	S1 @ 10'	05/31/17 14:20	Soil	11/28/17			VOC_S_GRO TPHDOSG_S_8015B VOC_S_8260B	
Sample Note: Std 3 Day TAT. TPHg, VOCs, TPHd, mo with silica gel c/up.								
1706009-002A	S1 @ 15'	05/31/17 14:25	Soil	11/28/17				
1706009-003A	S1 @ 20'	05/31/17 14:30	Soil	11/28/17			Hold Samples	
1706009-004A	S1 @ 25'	05/31/17 14:35	Soil	11/28/17			Hold Samples	
1706009-005A	S2 @ 5'	05/31/17 11:10	Soil	11/28/17			Hold Samples	
							TPHDOSG_S_8015B VOC_S_8260B VOC_S_GRO	
1706009-006A	S2 @ 10'	05/31/17 13:15	Soil	11/28/17			Hold Samples	
1706009-007A	S2 @ 15'	05/31/17 11:20	Soil	11/28/17			Hold Samples	
1706009-008A	S2 @ 20'	05/31/17 11:25	Soil	11/28/17			Hold Samples	
1706009-009A	S3 @ 5'	05/31/17 17:10	Soil	11/28/17			Hold Samples	
							TPHDOSG_S_8015B VOC_S_GRO VOC_S_8260B	
1706009-010A	S3 @ 10'	05/31/17 17:15	Soil	11/28/17			Hold Samples	
1706009-011A	S3 @ 15'	05/31/17 17:20	Soil	11/28/17			Hold Samples	
1706009-012A	S3 @ 20'	05/31/17 17:25	Soil	11/28/17			Hold Samples	

1706009

PROJECT NUMBER		PROJECT NAME		SAMPLING METHOD		ANALYSIS METHOD		DETECTION LIMITS	
PROJECT MANAGER		ROUTING		DATE/TIME		RECEIVED BY		REMARKS	
13847.000.000		Fort Ord Surplus II Areas		TPH-g, VOCs, TPH-d/mo, n/silica gel, cleanup					
SAMPLED BY: (SIGNATURE/PRINT) Robert Peck		PROJECT MANAGER: (SIGNATURE/PRINT) Scott Johns		ROUTING: E-MAIL rpeck@engeo.com		HARD COPY 5Johns@engeo.com			
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH-g	VOCs	TPH-d/mo
S1@10'	5-17	14:20	Soil	1	liner		X	X	
S1@15'		14:25							Hold
S1@20'		14:30							Hold
S1@25'		14:35							Hold
S2@5'		11:10					X	X	
S2@10'		11:15							Hold
S2@15'		11:20							Hold
S2@20'		11:25							Hold
S3@5'		17:10					X	X	
S3@10'		17:15							Hold
S3@15'		17:20							Hold
S3@20'		17:25							Hold
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME	
		6-7-17 15:00		Kathie C. B.					
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME	
RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS	
								Standard TAT	

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APPENDIX 2
ANALYTICAL LABORATORY REPORTS



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 444715
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	444715
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
1-SOIL 01	444715-001	04/29/21 12:00	Soil
1-SOIL 02	444715-002	04/28/21 10:00	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 444715
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/30/21. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Low recovery was observed for TPH gasoline in the MS for batch 266614; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015M):

Low recovery was observed for diesel C10-C28 in the LCS for batch 266535; the low recovery was not associated with any reported results. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

1-SOIL 02 (lab # 444715-002) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

Pesticides (EPA 8081A):

Low recovery was observed for endrin in the MSD for batch 266559; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for endrin in the MS/MSD for batch 266559; this analyte was not detected at or above the RL in the associated samples. 1-SOIL 01 (lab # 444715-001) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1-SOIL 01 (lab # 444715-001); the LCS was within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 444715
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

Sample ID: 1-SOIL 01

Lab ID: 444715-001

Collected: 04/29/21 12:00

Matrix: Soil

444715-001 Analyte

Result

Qual

Units

RL

MDL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic	2.8		mg/Kg	0.97	0.65
Barium	150		mg/Kg	0.97	
Chromium	33		mg/Kg	0.97	
Cobalt	4.2		mg/Kg	0.49	
Copper	15		mg/Kg	0.97	
Lead	180		mg/Kg	0.97	
Nickel	15		mg/Kg	0.97	
Vanadium	17		mg/Kg	0.97	
Zinc	190		mg/Kg	4.9	

Method: EPA 7471A

Prep Method: METHOD

Mercury	0.21		mg/Kg	0.14	
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Method: EPA 8015M

Prep Method: EPA 3580

DRO C10-C28 (SGCU)	50		mg/Kg	38	
ORO C28-C44 (SGCU)	140		mg/Kg	77	

Method: EPA 8081A

Prep Method: EPA 3546

4,4'-DDT	32		ug/Kg	25	
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Method: EPA 8082

Prep Method: EPA 3546

Aroclor-1260	35		ug/Kg	20	
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Method: EPA 8260B

Prep Method: EPA 5035

Acetone	850		ug/Kg	280	
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Detection Summary

Sample ID: 1-SOIL 02
Lab ID: 444715-002
Collected: 04/28/21 10:00
Matrix: Soil
444715-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.2		mg/Kg	1.1	0.74
Barium	21		mg/Kg	1.1	
Chromium	13		mg/Kg	1.1	
Cobalt	73		mg/Kg	0.55	
Copper	3.9		mg/Kg	1.1	
Lead	1.6		mg/Kg	1.1	
Nickel	13		mg/Kg	1.1	
Vanadium	12		mg/Kg	1.1	
Zinc	7.6		mg/Kg	5.5	
Method: EPA 7196A					
Prep Method: EPA 3060A					
Hexavalent Chromium	3.6		mg/Kg	0.80	0.26
Method: EPA 8260B					
Prep Method: EPA 5035					
Naphthalene	11		ug/Kg	8.9	
Method: EPA 8270C					
Prep Method: EPA 3546					
bis(2-Ethylhexyl)phthalate	550		ug/Kg	500	

SGCU Silica gel cleanup

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 441715
Date Received: 4/30/21

Client: Vista
Project: _____



Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/30/21 By (print) MTG (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☒ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☒ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____ or IR Gun # ☐ B ☒ C

Cooler Temp (°C): #1: 3.7, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?	☒		
If YES, what time were they transferred to freezer? <u>4/30/21 1330</u>			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?			☒
Was the client contacted concerning this sample delivery?		☒	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____
☐ HCL lot# _____ added to samples _____ on/at _____
☐ HNO3 lot# _____ added to samples _____ on/at _____
☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time.

Date Logged in 4/30/21 By (print) MTG for 214 (sign) [Signature]
Date Labeled 4/30/21 By (print) MTG (sign) [Signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista EnvironmentalProject: City of Seaside - Former Fort OrdDate Received: 5/4/21Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)Sample Temp (°C)
(No Cooler) : _____Sample Temp (°C), One from each cooler: #1: 4.0 #2: _____ #3: _____ #4: _____*(Acceptance range is < 5°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*Shipping Information: GLS

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____Cooler Temp (°C): #1: 0.8 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: [Signature] Date: 5/4/21



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553178430

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

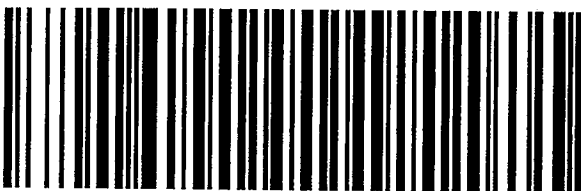
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S92868A



41313812

ORC CA927-CI1

Print Date: 5/3/2021 3:03 PM

Package 1 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

0-8 / 4-0

Gasoline by GC/FID (5035 Prep)

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL 01

Basis: as received

Prepared: 05/05/21

Type: SAMPLE

Batch#: 266583

Prep: EPA 5030B

Lab ID: 444715-001

Sampled: 04/29/21

Analysis: EPA 8015B

Matrix: Soil

Received: 04/30/21

Analyst: EMW

Analyte	Result	RL	Units	Diln Fac	Analyzed
TPH Gasoline	ND	4.7	mg/Kg	1.560	05/06/21
Surrogate		%REC	Limits	Diln Fac	Analyzed
Bromofluorobenzene (FID)		85	60-140	1.000	05/06/21

Field ID: 1-SOIL 02

Basis: as received

Prepared: 05/06/21

Type: SAMPLE

Batch#: 266614

Prep: EPA 5030B

Lab ID: 444715-002

Sampled: 04/28/21

Analysis: EPA 8015B

Matrix: Soil

Received: 04/30/21

Analyst: EMW

Analyte	Result	RL	Units	Diln Fac	Analyzed
TPH Gasoline	ND	3.6	mg/Kg	1.190	05/07/21
Surrogate		%REC	Limits	Diln Fac	Analyzed
Bromofluorobenzene (FID)		90	60-140	1.000	05/06/21

Type: BLANK

Batch#: 266583

Analysis: EPA 8015B

Lab ID: QC923446

Prepared: 05/05/21

Analyst: EMW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 5030B

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Type: BLANK

Batch#: 266614

Analysis: EPA 8015B

Lab ID: QC923520

Prepared: 05/06/21

Analyst: EMW

Matrix: Soil

Analyzed: 05/06/21

Diln Fac: 1.000

Prep: EPA 5030B

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Legend

ND: Not Detected

RL: Reporting Limit

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444715		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923443		Batch#: 266583		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/05/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.261	105	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			130	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/05/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444731-001	Batch#: 266583	Analysis: EPA 8015B
Lab ID: QC923444	Sampled: 04/22/21	Analyst: EMW
Matrix: Soil	Received: 04/30/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	5.058	101	70-130	mg/Kg
Surrogate				%REC	Limits	
Bromofluorobenzene (FID)				135	60-140	

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/05/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444731-001	Batch#: 266583	Analysis: EPA 8015B
Lab ID: QC923445	Sampled: 04/22/21	Analyst: EMW
Matrix: Soil	Received: 04/30/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	5.037	101	70-130	mg/Kg	0	20
Surrogate				%REC	Limits		
Bromofluorobenzene (FID)				135	60-140		

Legend

RPD: Relative Percent Difference

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444715		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923517		Batch#: 266614		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/06/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.418	108	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			135	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923518	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	3.437	69 *	70-130	mg/Kg

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	60-140

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923519	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	3.537	71	70-130	mg/Kg	3	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	60-140

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Extractable Carbon Chain

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL 01

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444715-001

Sampled: 04/29/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	50	38	mg/Kg
ORO C28-C44 (SGCU)	140	77	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	101	70-130

Field ID: 1-SOIL 02

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444715-002

Sampled: 04/28/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	88	70-130

Type: BLANK

Batch#: 266535

Cleanup Method: EPA 3630C

Lab ID: QC923298

Prepared: 05/05/21

Analysis: EPA 8015M

Matrix: Soil

Analyzed: 05/05/21

Analyst: MES

Diln Fac: 1.000

Prep: EPA 3580

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	94	70-130

Legend

(SGCU): Silica gel cleanup

ND: Not Detected

RL: Reporting Limit

Extractable Carbon Chain: Batch QC

Lab #: 444715		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923299	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	247.5	156.0	63 *	76-122	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	87	70-130

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

Extractable Carbon Chain: Batch QC

Lab #: 444715		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MS	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923300	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	3.186	250.0	182.1	72	62-126	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MSD	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923301	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Diesel C10-C28 (SGCU)	250.0	184.3	72	62-126	mg/Kg	1	35

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Legend

(SGCU): Silica gel cleanup

RPD: Relative Percent Difference

Purgeable Organics by GC/MS

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Diln Fac: 2.778	Analyzed: 05/06/21
Lab ID: 444715-001	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	14	ug/Kg
Chloromethane	ND	14	ug/Kg
Vinyl Chloride	ND	14	ug/Kg
Bromomethane	ND	14	ug/Kg
Chloroethane	ND	14	ug/Kg
Trichlorofluoromethane	ND	14	ug/Kg
Acetone	850	280	ug/Kg
Freon 113	ND	14	ug/Kg
1,1-Dichloroethene	ND	14	ug/Kg
Methylene Chloride	ND	14	ug/Kg
MTBE	ND	14	ug/Kg
trans-1,2-Dichloroethene	ND	14	ug/Kg
1,1-Dichloroethane	ND	14	ug/Kg
2-Butanone	ND	280	ug/Kg
cis-1,2-Dichloroethene	ND	14	ug/Kg
2,2-Dichloropropane	ND	14	ug/Kg
Chloroform	ND	14	ug/Kg
Bromochloromethane	ND	14	ug/Kg
1,1,1-Trichloroethane	ND	14	ug/Kg
1,1-Dichloropropene	ND	14	ug/Kg
Carbon Tetrachloride	ND	14	ug/Kg
1,2-Dichloroethane	ND	14	ug/Kg
Benzene	ND	14	ug/Kg
Trichloroethene	ND	14	ug/Kg
1,2-Dichloropropane	ND	14	ug/Kg
Bromodichloromethane	ND	14	ug/Kg
Dibromomethane	ND	14	ug/Kg
4-Methyl-2-Pentanone	ND	14	ug/Kg
cis-1,3-Dichloropropene	ND	14	ug/Kg
Toluene	ND	14	ug/Kg
trans-1,3-Dichloropropene	ND	14	ug/Kg
1,1,2-Trichloroethane	ND	14	ug/Kg
1,3-Dichloropropane	ND	14	ug/Kg
Tetrachloroethene	ND	14	ug/Kg
Dibromochloromethane	ND	14	ug/Kg
1,2-Dibromoethane	ND	14	ug/Kg
Chlorobenzene	ND	14	ug/Kg
1,1,1,2-Tetrachloroethane	ND	14	ug/Kg
Ethylbenzene	ND	14	ug/Kg
m,p-Xylenes	ND	28	ug/Kg
o-Xylene	ND	14	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	14	ug/Kg
Bromoform	ND	14	ug/Kg
Isopropylbenzene	ND	14	ug/Kg
1,1,2,2-Tetrachloroethane	ND	14	ug/Kg
1,2,3-Trichloropropane	ND	14	ug/Kg
Propylbenzene	ND	14	ug/Kg
Bromobenzene	ND	14	ug/Kg
1,3,5-Trimethylbenzene	ND	14	ug/Kg
2-Chlorotoluene	ND	14	ug/Kg
4-Chlorotoluene	ND	14	ug/Kg
tert-Butylbenzene	ND	14	ug/Kg
1,2,4-Trimethylbenzene	ND	14	ug/Kg
sec-Butylbenzene	ND	14	ug/Kg
para-Isopropyl Toluene	ND	14	ug/Kg
1,3-Dichlorobenzene	ND	14	ug/Kg
1,4-Dichlorobenzene	ND	14	ug/Kg
n-Butylbenzene	ND	14	ug/Kg
1,2-Dichlorobenzene	ND	14	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	14	ug/Kg
1,2,4-Trichlorobenzene	ND	14	ug/Kg
Hexachlorobutadiene	ND	14	ug/Kg
Naphthalene	ND	14	ug/Kg
1,2,3-Trichlorobenzene	ND	14	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	94	70-145	
1,2-Dichloroethane-d4	104	70-145	
Toluene-d8	106	70-145	
Bromofluorobenzene	97	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Diln Fac: 1.786	Analyzed: 05/06/21
Lab ID: 444715-002	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/28/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	8.9	ug/Kg
Chloromethane	ND	8.9	ug/Kg
Vinyl Chloride	ND	8.9	ug/Kg
Bromomethane	ND	8.9	ug/Kg
Chloroethane	ND	8.9	ug/Kg
Trichlorofluoromethane	ND	8.9	ug/Kg
Acetone	ND	180	ug/Kg
Freon 113	ND	8.9	ug/Kg
1,1-Dichloroethene	ND	8.9	ug/Kg
Methylene Chloride	ND	8.9	ug/Kg
MTBE	ND	8.9	ug/Kg
trans-1,2-Dichloroethene	ND	8.9	ug/Kg
1,1-Dichloroethane	ND	8.9	ug/Kg
2-Butanone	ND	180	ug/Kg
cis-1,2-Dichloroethene	ND	8.9	ug/Kg
2,2-Dichloropropane	ND	8.9	ug/Kg
Chloroform	ND	8.9	ug/Kg
Bromochloromethane	ND	8.9	ug/Kg
1,1,1-Trichloroethane	ND	8.9	ug/Kg
1,1-Dichloropropene	ND	8.9	ug/Kg
Carbon Tetrachloride	ND	8.9	ug/Kg
1,2-Dichloroethane	ND	8.9	ug/Kg
Benzene	ND	8.9	ug/Kg
Trichloroethene	ND	8.9	ug/Kg
1,2-Dichloropropane	ND	8.9	ug/Kg
Bromodichloromethane	ND	8.9	ug/Kg
Dibromomethane	ND	8.9	ug/Kg
4-Methyl-2-Pentanone	ND	8.9	ug/Kg
cis-1,3-Dichloropropene	ND	8.9	ug/Kg
Toluene	ND	8.9	ug/Kg
trans-1,3-Dichloropropene	ND	8.9	ug/Kg
1,1,2-Trichloroethane	ND	8.9	ug/Kg
1,3-Dichloropropane	ND	8.9	ug/Kg
Tetrachloroethene	ND	8.9	ug/Kg
Dibromochloromethane	ND	8.9	ug/Kg
1,2-Dibromoethane	ND	8.9	ug/Kg
Chlorobenzene	ND	8.9	ug/Kg
1,1,1,2-Tetrachloroethane	ND	8.9	ug/Kg
Ethylbenzene	ND	8.9	ug/Kg
m,p-Xylenes	ND	18	ug/Kg
o-Xylene	ND	8.9	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	8.9	ug/Kg
Bromoform	ND	8.9	ug/Kg
Isopropylbenzene	ND	8.9	ug/Kg
1,1,2,2-Tetrachloroethane	ND	8.9	ug/Kg
1,2,3-Trichloropropane	ND	8.9	ug/Kg
Propylbenzene	ND	8.9	ug/Kg
Bromobenzene	ND	8.9	ug/Kg
1,3,5-Trimethylbenzene	ND	8.9	ug/Kg
2-Chlorotoluene	ND	8.9	ug/Kg
4-Chlorotoluene	ND	8.9	ug/Kg
tert-Butylbenzene	ND	8.9	ug/Kg
1,2,4-Trimethylbenzene	ND	8.9	ug/Kg
sec-Butylbenzene	ND	8.9	ug/Kg
para-Isopropyl Toluene	ND	8.9	ug/Kg
1,3-Dichlorobenzene	ND	8.9	ug/Kg
1,4-Dichlorobenzene	ND	8.9	ug/Kg
n-Butylbenzene	ND	8.9	ug/Kg
1,2-Dichlorobenzene	ND	8.9	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	8.9	ug/Kg
1,2,4-Trichlorobenzene	ND	8.9	ug/Kg
Hexachlorobutadiene	ND	8.9	ug/Kg
Naphthalene	11	8.9	ug/Kg
1,2,3-Trichlorobenzene	ND	8.9	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	93	70-145	
1,2-Dichloroethane-d4	106	70-145	
Toluene-d8	102	70-145	
Bromofluorobenzene	96	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444715		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK	Diln Fac: 1.000	Prep: EPA 5035	
Lab ID: QC923448	Batch#: 266584	Analysis: EPA 8260B	
Matrix: Soil	Analyzed: 05/05/21	Analyst: RAO	
Analyte	Result	RL	Units
Freon 12	ND	5.0	ug/Kg
Chloromethane	ND	5.0	ug/Kg
Vinyl Chloride	ND	5.0	ug/Kg
Bromomethane	ND	5.0	ug/Kg
Chloroethane	ND	5.0	ug/Kg
Trichlorofluoromethane	ND	5.0	ug/Kg
Acetone	ND	100	ug/Kg
Freon 113	ND	5.0	ug/Kg
1,1-Dichloroethene	ND	5.0	ug/Kg
Methylene Chloride	ND	5.0	ug/Kg
MTBE	ND	5.0	ug/Kg
trans-1,2-Dichloroethene	ND	5.0	ug/Kg
1,1-Dichloroethane	ND	5.0	ug/Kg
2-Butanone	ND	100	ug/Kg
cis-1,2-Dichloroethene	ND	5.0	ug/Kg
2,2-Dichloropropane	ND	5.0	ug/Kg
Chloroform	ND	5.0	ug/Kg
Bromochloromethane	ND	5.0	ug/Kg
1,1,1-Trichloroethane	ND	5.0	ug/Kg
1,1-Dichloropropene	ND	5.0	ug/Kg
Carbon Tetrachloride	ND	5.0	ug/Kg
1,2-Dichloroethane	ND	5.0	ug/Kg
Benzene	ND	5.0	ug/Kg
Trichloroethene	ND	5.0	ug/Kg
1,2-Dichloropropane	ND	5.0	ug/Kg
Bromodichloromethane	ND	5.0	ug/Kg
Dibromomethane	ND	5.0	ug/Kg
4-Methyl-2-Pentanone	ND	5.0	ug/Kg
cis-1,3-Dichloropropene	ND	5.0	ug/Kg
Toluene	ND	5.0	ug/Kg
trans-1,3-Dichloropropene	ND	5.0	ug/Kg
1,1,2-Trichloroethane	ND	5.0	ug/Kg
1,3-Dichloropropane	ND	5.0	ug/Kg
Tetrachloroethene	ND	5.0	ug/Kg
Dibromochloromethane	ND	5.0	ug/Kg
1,2-Dibromoethane	ND	5.0	ug/Kg
Chlorobenzene	ND	5.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg
Ethylbenzene	ND	5.0	ug/Kg
m,p-Xylenes	ND	10	ug/Kg
o-Xylene	ND	5.0	ug/Kg
Styrene	ND	5.0	ug/Kg

Purgeable Organics by GC/MS: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Bromoform	ND	5.0	ug/Kg
Isopropylbenzene	ND	5.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg
1,2,3-Trichloropropane	ND	5.0	ug/Kg
Propylbenzene	ND	5.0	ug/Kg
Bromobenzene	ND	5.0	ug/Kg
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg
2-Chlorotoluene	ND	5.0	ug/Kg
4-Chlorotoluene	ND	5.0	ug/Kg
tert-Butylbenzene	ND	5.0	ug/Kg
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg
sec-Butylbenzene	ND	5.0	ug/Kg
para-Isopropyl Toluene	ND	5.0	ug/Kg
1,3-Dichlorobenzene	ND	5.0	ug/Kg
1,4-Dichlorobenzene	ND	5.0	ug/Kg
n-Butylbenzene	ND	5.0	ug/Kg
1,2-Dichlorobenzene	ND	5.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg
Hexachlorobutadiene	ND	5.0	ug/Kg
Naphthalene	ND	5.0	ug/Kg
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	98	70-130	
1,2-Dichloroethane-d4	107	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BS

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923449

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units
1,1-Dichloroethene	50.00	51.26	103	70-131	ug/Kg
MTBE	50.00	48.03	96	69-130	ug/Kg
Benzene	50.00	49.31	99	70-130	ug/Kg
Trichloroethene	50.00	49.52	99	70-130	ug/Kg
Toluene	50.00	50.96	102	70-130	ug/Kg
Chlorobenzene	50.00	50.41	101	70-130	ug/Kg

Surrogate	%REC	Limits
Dibromofluoromethane	94	70-130
1,2-Dichloroethane-d4	94	70-145
Toluene-d8	105	70-145
Bromofluorobenzene	103	70-145

Type: BSD

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923450

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
1,1-Dichloroethene	50.00	53.82	108	70-131	ug/Kg	5	33
MTBE	50.00	51.69	103	69-130	ug/Kg	7	30
Benzene	50.00	52.61	105	70-130	ug/Kg	6	30
Trichloroethene	50.00	50.41	101	70-130	ug/Kg	2	30
Toluene	50.00	51.84	104	70-130	ug/Kg	2	30
Chlorobenzene	50.00	51.66	103	70-130	ug/Kg	2	30

Surrogate	%REC	Limits
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	99	70-145
Toluene-d8	102	70-145
Bromofluorobenzene	101	70-145

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Batch#: 266537	Prep: EPA 3546
Lab ID: 444715-001	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	58	29-120
Phenol-d6	58	30-120
2,4,6-Tribromophenol	51	32-120
Nitrobenzene-d5	52	33-120
2-Fluorobiphenyl	51	39-120
Terphenyl-d14	55	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL 02

Batch#: 266537

Prep: EPA 3546

Lab ID: 444715-002

Sampled: 04/28/21

Analysis: EPA 8270C

Matrix: Soil

Received: 04/30/21

Analyst: DJL

Basis: as received

Prepared: 05/05/21

Diln Fac: 2.000

Analyzed: 05/06/21

Analyte	Result	RL	Units
Carbazole	ND	500	ug/Kg
1-Methylnaphthalene	ND	500	ug/Kg
Pyridine	ND	500	ug/Kg
N-Nitrosodimethylamine	ND	500	ug/Kg
Phenol	ND	500	ug/Kg
Aniline	ND	500	ug/Kg
bis(2-Chloroethyl)ether	ND	2,400	ug/Kg
2-Chlorophenol	ND	500	ug/Kg
1,3-Dichlorobenzene	ND	500	ug/Kg
1,4-Dichlorobenzene	ND	500	ug/Kg
Benzyl alcohol	ND	500	ug/Kg
1,2-Dichlorobenzene	ND	500	ug/Kg
2-Methylphenol	ND	500	ug/Kg
bis(2-Chloroisopropyl) ether	ND	500	ug/Kg
3-,4-Methylphenol	ND	800	ug/Kg
N-Nitroso-di-n-propylamine	ND	500	ug/Kg
Hexachloroethane	ND	500	ug/Kg
Nitrobenzene	ND	2,400	ug/Kg
Isophorone	ND	500	ug/Kg
2-Nitrophenol	ND	500	ug/Kg
2,4-Dimethylphenol	ND	500	ug/Kg
Benzoic acid	ND	2,400	ug/Kg
bis(2-Chloroethoxy)methane	ND	500	ug/Kg
2,4-Dichlorophenol	ND	500	ug/Kg
1,2,4-Trichlorobenzene	ND	500	ug/Kg
Naphthalene	ND	500	ug/Kg
4-Chloroaniline	ND	500	ug/Kg
Hexachlorobutadiene	ND	500	ug/Kg
4-Chloro-3-methylphenol	ND	500	ug/Kg
2-Methylnaphthalene	ND	500	ug/Kg
Hexachlorocyclopentadiene	ND	2,400	ug/Kg
2,4,6-Trichlorophenol	ND	500	ug/Kg
2,4,5-Trichlorophenol	ND	500	ug/Kg
2-Chloronaphthalene	ND	500	ug/Kg
2-Nitroaniline	ND	500	ug/Kg
Dimethylphthalate	ND	500	ug/Kg
Acenaphthylene	ND	500	ug/Kg
2,6-Dinitrotoluene	ND	500	ug/Kg
3-Nitroaniline	ND	500	ug/Kg
Acenaphthene	ND	500	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	2,400	ug/Kg
4-Nitrophenol	ND	500	ug/Kg
Dibenzofuran	ND	500	ug/Kg
2,4-Dinitrotoluene	ND	500	ug/Kg
Diethylphthalate	ND	500	ug/Kg
Fluorene	ND	500	ug/Kg
4-Chlorophenyl-phenylether	ND	500	ug/Kg
4-Nitroaniline	ND	500	ug/Kg
4,6-Dinitro-2-methylphenol	ND	500	ug/Kg
N-Nitrosodiphenylamine	ND	500	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	500	ug/Kg
4-Bromophenyl-phenylether	ND	500	ug/Kg
Hexachlorobenzene	ND	500	ug/Kg
Pentachlorophenol	ND	2,400	ug/Kg
Phenanthrene	ND	500	ug/Kg
Anthracene	ND	500	ug/Kg
Di-n-butylphthalate	ND	500	ug/Kg
Fluoranthene	ND	500	ug/Kg
Benzidine	ND	2,400	ug/Kg
Pyrene	ND	500	ug/Kg
Butylbenzylphthalate	ND	500	ug/Kg
3,3'-Dichlorobenzidine	ND	2,400	ug/Kg
Benzo(a)anthracene	ND	500	ug/Kg
Chrysene	ND	500	ug/Kg
bis(2-Ethylhexyl)phthalate	550	500	ug/Kg
Di-n-octylphthalate	ND	500	ug/Kg
Benzo(b)fluoranthene	ND	500	ug/Kg
Benzo(k)fluoranthene	ND	500	ug/Kg
Benzo(a)pyrene	ND	500	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	500	ug/Kg
Dibenz(a,h)anthracene	ND	500	ug/Kg
Benzo(g,h,i)perylene	ND	500	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	31	29-120
Phenol-d6	36	30-120
2,4,6-Tribromophenol	48	32-120
Nitrobenzene-d5	34	33-120
2-Fluorobiphenyl	45	39-120
Terphenyl-d14	55	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266537

Analysis: EPA 8270C

Lab ID: QC923305

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg
Surrogate	%REC	Limits	
2-Fluorophenol	56	29-120	
Phenol-d6	55	30-120	
2,4,6-Tribromophenol	47	32-120	
Nitrobenzene-d5	50	33-120	
2-Fluorobiphenyl	49	39-120	
Terphenyl-d14	71	44-125	
Legend			
ND: Not Detected			
RL: Reporting Limit			

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266537

Analysis: EPA 8270C

Lab ID: QC923306

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,299	65	42-120	ug/Kg
2-Chlorophenol	2,000	1,302	65	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,260	63	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,393	70	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,229	61	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,278	64	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,296	65	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,402	70	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,332	67	40-124	ug/Kg
Acenaphthene	2,000	1,232	62	35-126	ug/Kg
4-Nitrophenol	2,000	1,200	60	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,299	65	40-131	ug/Kg
Pentachlorophenol	2,000	1,038	52	35-120	ug/Kg
Pyrene	2,000	1,263	63	37-135	ug/Kg
Chrysene	2,000	1,306	65	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,401	70	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			67	29-120	
Phenol-d6			72	30-120	
2,4,6-Tribromophenol			64	32-120	
Nitrobenzene-d5			69	33-120	
2-Fluorobiphenyl			65	39-120	
Terphenyl-d14			66	44-125	

Organochlorine Pesticides

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444715-001	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 5.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	25	ug/Kg
beta-BHC	ND	25	ug/Kg
gamma-BHC	ND	25	ug/Kg
delta-BHC	ND	25	ug/Kg
Heptachlor	ND	25	ug/Kg
Aldrin	ND	25	ug/Kg
Heptachlor epoxide	ND	25	ug/Kg
Endosulfan I	ND	25	ug/Kg
Dieldrin	ND	25	ug/Kg
4,4'-DDE	ND	25	ug/Kg
Endrin	ND	25	ug/Kg
Endosulfan II	ND	25	ug/Kg
Endosulfan sulfate	ND	25	ug/Kg
4,4'-DDD	ND	25	ug/Kg
Endrin aldehyde	ND	25	ug/Kg
Endrin ketone	ND	25	ug/Kg
4,4'-DDT	32	25	ug/Kg
Methoxychlor	ND	50	ug/Kg
Toxaphene	ND	500	ug/Kg
Chlordane (Technical)	ND	250	ug/Kg

Surrogate	%REC	Limits
TCMX	66	23-120
Decachlorobiphenyl	72	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Batch#: 266559	Prep: EPA 3546
Lab ID: 444715-002	Sampled: 04/28/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	45	23-120
Decachlorobiphenyl	40	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266559

Analysis: EPA 8081A

Lab ID: QC923376

Prepared: 05/05/21

Analyst: KTD

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	54	23-120
Decachlorobiphenyl	55	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923377	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
alpha-BHC	50.00	31.96	64	22-129	ug/Kg
beta-BHC	50.00	32.55	65	28-125	ug/Kg
gamma-BHC	50.00	32.43	65	22-128	ug/Kg
delta-BHC	50.00	32.37	65	24-131	ug/Kg
Heptachlor	50.00	32.34	65	18-124	ug/Kg
Aldrin	50.00	29.48	59	23-120	ug/Kg
Heptachlor epoxide	50.00	29.50	59	26-120	ug/Kg
Endosulfan I	50.00	32.44	65	25-126	ug/Kg
Dieldrin	50.00	32.14	64	23-124	ug/Kg
4,4'-DDE	50.00	31.77	64	28-121	ug/Kg
Endrin	50.00	32.89	66	25-127	ug/Kg
Endosulfan II	50.00	32.45	65	29-121	ug/Kg
Endosulfan sulfate	50.00	31.51	63	30-121	ug/Kg
4,4'-DDD	50.00	29.20	58	26-120	ug/Kg
Endrin aldehyde	50.00	21.32	43	10-120	ug/Kg
Endrin ketone	50.00	30.33	61	28-125	ug/Kg
4,4'-DDT	50.00	33.70	67	22-125	ug/Kg
Methoxychlor	50.00	34.76	70	28-130	ug/Kg
Surrogate			%REC	Limits	
TCMX			60	23-120	
Decachlorobiphenyl			61	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923378	Sampled: 04/22/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
alpha-BHC	<1.600	50.00	29.92	60	46-120	ug/Kg
beta-BHC	<1.500	50.00	29.08	58	41-120	ug/Kg
gamma-BHC	<2.000	50.00	30.42	61	41-120	ug/Kg
delta-BHC	<1.200	50.00	32.31	65	38-123	ug/Kg
Heptachlor	<1.300	50.00	26.32	53	39-120	ug/Kg
Aldrin	<1.500	50.00	28.21	56	34-120	ug/Kg
Heptachlor epoxide	<2.300	50.00	26.58	53	43-120	ug/Kg
Endosulfan I	<1.200	50.00	28.35	57	45-120	ug/Kg
Dieldrin	<2.100	50.00	28.19	56	45-120	ug/Kg
4,4'-DDE	5.593	50.00	28.74	46	34-120	ug/Kg
Endrin	<2.700	50.00	25.25	51	40-120	ug/Kg
Endosulfan II	<2.800	50.00	28.60	57	41-120	ug/Kg
Endosulfan sulfate	<3.400	50.00	28.02	56	42-120	ug/Kg
4,4'-DDD	<2.100	50.00	25.88	52	41-120	ug/Kg
Endrin aldehyde	<2.100	50.00	21.81	44	30-120	ug/Kg
Endrin ketone	<4.100	50.00	30.40	61	45-120	ug/Kg
4,4'-DDT	<2.000	50.00	30.72	61	35-127	ug/Kg
Methoxychlor	<9.200	50.00	31.27	63	42-136	ug/Kg

Surrogate	%REC	Limits
TCMX	52	23-120
Decachlorobiphenyl	52	24-120

Organochlorine Pesticides: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: ZZZZZZZZZZ

Basis: as received

Prepared: 05/05/21

Type: MSD

Diln Fac: 1.000

Analyzed: 05/05/21

MSS Lab ID: 444731-001

Batch#: 266559

Prep: EPA 3546

Lab ID: QC923379

Sampled: 04/22/21

Analysis: EPA 8081A

Matrix: Soil

Received: 04/30/21

Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
alpha-BHC	50.00	26.03	52	46-120	ug/Kg	14	30
beta-BHC	50.00	26.06	52	41-120	ug/Kg	11	30
gamma-BHC	50.00	27.07	54	41-120	ug/Kg	12	30
delta-BHC	50.00	28.63	57	38-123	ug/Kg	12	30
Heptachlor	50.00	23.65	47	39-120	ug/Kg	11	30
Aldrin	50.00	25.07	50	34-120	ug/Kg	12	30
Heptachlor epoxide	50.00	23.95	48	43-120	ug/Kg	10	30
Endosulfan I	50.00	25.82	52	45-120	ug/Kg	9	30
Dieldrin	50.00	24.26	49	45-120	ug/Kg	15	30
4,4'-DDE	50.00	26.17	41	34-120	ug/Kg	9	30
Endrin	50.00	18.27	37 *	40-120	ug/Kg	32 *	30
Endosulfan II	50.00	26.12	52	41-120	ug/Kg	9	30
Endosulfan sulfate	50.00	24.97	50	42-120	ug/Kg	11	30
4,4'-DDD	50.00	25.50	51	41-120	ug/Kg	1	30
Endrin aldehyde	50.00	20.61	41	30-120	ug/Kg	6	30
Endrin ketone	50.00	32.75	65	45-120	ug/Kg	7	30
4,4'-DDT	50.00	27.75	56	35-127	ug/Kg	10	30
Methoxychlor	50.00	28.64	57	42-136	ug/Kg	9	30

Surrogate	%REC	Limits
TCMX	48	23-120
Decachlorobiphenyl	48	24-120

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444715-001	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	35	20	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		77	19-121

Field ID: 1-SOIL 02	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444715-002	Sampled: 04/28/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		39	19-121

Polychlorinated Biphenyls (PCBs)

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8082
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	52	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444715		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Batch#: 266559		Analysis: EPA 8082	
Lab ID: QC923380		Prepared: 05/05/21		Analyst: KTD	
Matrix: Soil		Analyzed: 05/05/21			
Diln Fac: 1.000		Prep: EPA 3546			
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	500.0	336.9	67	14-150	ug/Kg
Aroclor-1260	500.0	339.4	68	10-150	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl (PCB)			59	19-121	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444715		Project#: 211283001					
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord					
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923381		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	
Aroclor-1016	<3.000	500.0	294.7	59	42-127	ug/Kg	
Aroclor-1260	20.38	500.0	310.9	58	38-130	ug/Kg	
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				59	19-121		
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MSD		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923382		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	500.0	310.5	62	42-127	ug/Kg	5	30
Aroclor-1260	500.0	329.9	62	38-130	ug/Kg	6	30
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				63	19-121		

Legend

RPD: Relative Percent Difference

California Title 22 Metals

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Received: 04/30/21
Lab ID: 444715-001	Diln Fac: 1.000	Prepared: 05/05/21
Matrix: Soil	Sampled: 04/29/21	Analyzed: 05/06/21

Analyte	Result	RL	MDL	Units	Batch#	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Arsenic	2.8	0.97	0.65	mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Barium	150	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.49		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.49		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Chromium	33	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Cobalt	4.2	0.49		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Copper	15	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Lead	180	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Mercury	0.21	0.14		mg/Kg	266563	METHOD	EPA 7471A	JDB
Molybdenum	ND	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Nickel	15	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Selenium	ND	2.9		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.49		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Thallium	ND	2.9		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Vanadium	17	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Zinc	190	4.9		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL 02

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444715-002

Basis: as received

Sampled: 04/28/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.3		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.2	1.1	0.74	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	21	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.55		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.55		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	13	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	73	0.55		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	3.9	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	1.6	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	13	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.3		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.55		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.3		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	7.6	5.5		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266545	Analysis: EPA 6010B
Lab ID: QC923337	Prepared: 05/05/21	Analyst: SBW
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923338

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.90	99	80-120	mg/Kg
Arsenic	100.0	99.43	99	80-120	mg/Kg
Barium	100.0	98.31	98	80-120	mg/Kg
Beryllium	100.0	94.99	95	80-120	mg/Kg
Cadmium	100.0	95.29	95	80-120	mg/Kg
Chromium	100.0	97.58	98	80-120	mg/Kg
Cobalt	100.0	102.3	102	80-120	mg/Kg
Copper	100.0	95.65	96	80-120	mg/Kg
Lead	100.0	103.7	104	80-120	mg/Kg
Molybdenum	100.0	98.87	99	80-120	mg/Kg
Nickel	100.0	100.8	101	80-120	mg/Kg
Selenium	100.0	86.06	86	80-120	mg/Kg
Silver	50.00	45.81	92	80-120	mg/Kg
Thallium	100.0	99.43	99	80-120	mg/Kg
Vanadium	100.0	101.2	101	80-120	mg/Kg
Zinc	100.0	103.7	104	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923339	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.553	93.46	43.83	47 *	75-125	mg/Kg
Arsenic	2.768	93.46	93.68	97	75-125	mg/Kg
Barium	149.6	93.46	202.2	56 *	75-125	mg/Kg
Beryllium	0.08619	93.46	85.73	92	75-125	mg/Kg
Cadmium	0.4662	93.46	87.59	93	75-125	mg/Kg
Chromium	33.01	93.46	117.3	90	75-125	mg/Kg
Cobalt	4.170	93.46	96.33	99	75-125	mg/Kg
Copper	14.80	93.46	111.0	103	75-125	mg/Kg
Lead	181.3	93.46	210.4	31 *	75-125	mg/Kg
Molybdenum	<0.5728	93.46	87.06	93	75-125	mg/Kg
Nickel	15.37	93.46	103.0	94	75-125	mg/Kg
Selenium	<1.748	93.46	80.28	86	75-125	mg/Kg
Silver	<0.1553	46.73	41.48	89	75-125	mg/Kg
Thallium	<1.068	93.46	88.50	95	75-125	mg/Kg
Vanadium	17.27	93.46	109.5	99	75-125	mg/Kg
Zinc	194.9	93.46	256.6	66 *	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923340	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	46.31	47 *	75-125	mg/Kg	1	41
Arsenic	98.04	101.7	101	75-125	mg/Kg	4	35
Barium	98.04	213.7	65 *	75-125	mg/Kg	4	20
Beryllium	98.04	90.62	92	75-125	mg/Kg	1	20
Cadmium	98.04	95.42	97	75-125	mg/Kg	4	20
Chromium	98.04	126.2	95	75-125	mg/Kg	4	20
Cobalt	98.04	99.09	97	75-125	mg/Kg	2	20
Copper	98.04	108.9	96	75-125	mg/Kg	6	20
Lead	98.04	256.1	76	75-125	mg/Kg	18	20
Molybdenum	98.04	93.64	96	75-125	mg/Kg	2	20
Nickel	98.04	108.9	95	75-125	mg/Kg	1	20
Selenium	98.04	87.23	89	75-125	mg/Kg	4	20
Silver	49.02	44.97	92	75-125	mg/Kg	3	20
Thallium	98.04	95.20	97	75-125	mg/Kg	3	20
Vanadium	98.04	114.9	100	75-125	mg/Kg	1	20
Zinc	98.04	276.1	83	75-125	mg/Kg	6	20

California Title 22 Metals: Batch QC**Lab #:** 444715**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 444715		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK		Batch#: 266563	Analysis: EPA 7471A
Lab ID: QC923394		Prepared: 05/05/21	Analyst: JDB
Matrix: Soil		Analyzed: 05/06/21	
Diln Fac: 1.000		Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 444715**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923395**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8069	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923396	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	0.2059	0.9615	1.097	93	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923397	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	1.000	1.166	96	75-125	mg/Kg	3	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 444715	Project#: 211283001
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL 01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A
Lab ID: 444715-001	Sampled: 04/29/21 12:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP
Basis: as received	Prepared: 05/11/21 11:50	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1-SOIL 02	Diln Fac: 1.000	Analyzed: 05/11/21 16:14
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A
Lab ID: 444715-002	Sampled: 04/28/21 10:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP
Basis: as received	Prepared: 05/11/21 11:50	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	3.6	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 266848	Analysis: EPA 7196A
Lab ID: QC924217	Prepared: 05/11/21 11:50	Analyst: ATP
Matrix: Soil	Analyzed: 05/11/21 16:14	
Diln Fac: 1.000	Prep: EPA 3060A	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266848

Analysis: EPA 7196A

Lab ID: QC924218

Prepared: 05/11/21 11:50

Analyst: ATP

Matrix: Soil

Analyzed: 05/11/21 16:14

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.17	105	80-120	mg/Kg

Field ID: 5-SOIL 01

Basis: as received

Prepared: 05/11/21 11:50

Type: MS

Diln Fac: 5.000

Analyzed: 05/11/21 16:14

MSS Lab ID: 444721-001

Batch#: 266848

Prep: EPA 3060A

Lab ID: QC924219

Sampled: 04/29/21 08:00

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	35.59	89	75-125	mg/Kg

Field ID: 5-SOIL 01

Basis: as received

Prepared: 05/11/21 11:50

Type: MSD

Diln Fac: 5.000

Analyzed: 05/11/21 16:14

MSS Lab ID: 444721-001

Batch#: 266848

Prep: EPA 3060A

Lab ID: QC924220

Sampled: 04/29/21 08:00

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	36.27	91	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 444717
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	444717
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
2-SOIL-01	444717-001	04/29/21 13:30	Soil
2A-SOIL-01	444717-002	04/29/21 13:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 444717
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/30/21. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Low recovery was observed for TPH gasoline in the MS for batch 266614; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015M):

Low recovery was observed for diesel C10-C28 in the LCS for batch 266535; the low recovery was not associated with any reported results. Low surrogate recovery was observed for n-triacontane in 2-SOIL-01 (lab # 444717-001). No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

2-SOIL-01 (lab # 444717-001) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

Pesticides (EPA 8081A):

Low recovery was observed for endrin in the MSD for batch 266559; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for endrin in the MS/MSD for batch 266559; this analyte was not detected at or above the RL in the associated samples. 2A-SOIL-01 (lab # 444717-002) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1-SOIL 01 (lab # 444715-001); the LCS was within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 444717
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

Sample ID: 2-SOIL-01

Lab ID: 444717-001

Collected: 04/29/21 13:30

Matrix: Soil

444717-001 Analyte

	Result	Qual	Units	RL	MDL
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Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic	1.5		mg/Kg	0.98	0.66
Barium	29		mg/Kg	0.98	
Chromium	13		mg/Kg	0.98	
Cobalt	1.9		mg/Kg	0.49	
Copper	18		mg/Kg	0.98	
Lead	24		mg/Kg	0.98	
Nickel	9.8		mg/Kg	0.98	
Vanadium	12		mg/Kg	0.98	
Zinc	59		mg/Kg	4.9	

Method: EPA 7471A

Prep Method: METHOD

Mercury	0.16		mg/Kg	0.15	
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Method: EPA 8081A

Prep Method: EPA 3546

Dieldrin	6.3		ug/Kg	5.0	
4,4'-DDE	24		ug/Kg	5.0	
4,4'-DDT	39		ug/Kg	5.0	

Method: EPA 8260B

Prep Method: EPA 5035

Acetone	1,100		ug/Kg	260	
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Detection Summary

Sample ID: 2A-SOIL-01
Lab ID: 444717-002
Collected: 04/29/21 13:30
Matrix: Soil
444717-002 Analyte
Result
Qual
Units
RL
MDL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic	2.1		mg/Kg	1.1	0.71
Barium	54		mg/Kg	1.1	
Chromium	2.4		mg/Kg	1.1	
Cobalt	140		mg/Kg	0.53	
Copper	40		mg/Kg	1.1	
Lead	2.9		mg/Kg	1.1	
Nickel	6.8		mg/Kg	1.1	
Vanadium	5.4		mg/Kg	1.1	
Zinc	30		mg/Kg	5.3	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	5.1		mg/Kg	0.80	0.26
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Method: EPA 8015M

Prep Method: EPA 3580

DRO C10-C28 (SGCU)	24		mg/Kg	10	
ORO C28-C44 (SGCU)	26		mg/Kg	20	

Method: EPA 8082

Prep Method: EPA 3546

Aroclor-1260	220		ug/Kg	20	
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SGCU Silica gel cleanup



Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710

Phone 510-486-0900

Chain of Custody Record

Lab No: 444717

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard: X 5 Day: 1 Day: 3 Day: Custom TAT:

Matrix: A = Air S = Soil/Solid

= Water DW = Drinking Water SD = Sediment

PP = Pure Product SEA = Sea Water

SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:

1 = Na₂S₂O₃ 2 = HCl 3 =

HNO₃

4 = H₂SO₄ 5 = NaOH 6 =

Sample Receipt Temp:

(lab use only)

CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments			
Company:	Vista Environmental Consulting	Name:	City of Seaside -Former Fort Ord	City of Seaside -Former Fort Ord											
Report To:	Chris Burns/Aleshia Washington	Number:	211283001	211283001											
Email:	chrisburns@vista-env.com	P.O. #:													
Address:	2984 Teagarden Street	Address:		Area 2											
	San Leandro, Ca 94577														
Phone:	510-346-8860	Global ID:													
Fax:	aleshia.washington@vista-env.com	Sampled By:	C. Burns												
Sample ID		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	VOCS & TPH-G EPA Method 8260B	S-VOCs EPA Method 8270C	TPH-D & MO Method 8015 following silica gel prep by Method 3630M	CAM 17 Metals Method 6010B/7471A	PCBs Method 8082	Organochlorine Pesticides Method 8081A	Hexavalent Chromium Method 7196A		
1	2-SOIL-01	4/29/11	1330	Soil	5	YES	X	X	X	X	X	X	X		BOD: 4PT Compositely
2	2A-SOIL-01	4/29/11	1330	Soil	5	YES	X	X	X	X	X	X	X		AS: X Grip
3															
4															
5															
6															
7															
8															
9															
10															

Signature		Print Name		Company / Title		Date / Time	
1 Relinquished By:		Chris Burns	Chris Burns	Vista	Vista	04/29/11	1020
1 Received By:		Chris Burns	Chris Burns	SEA	SEA	4/30/11	1020
2 Relinquished By:		Chris Burns	Chris Burns	SEA	SEA	5/3/11	1240
2 Received By:		Chris Burns	Chris Burns	SEA	SEA	5/4/11	1025
3 Relinquished By:							
3 Received By:							

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 444717
Date Received: 4/30/21

Client: Vista
Project: _____


Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/30/21 By (print) mtg (sign) [signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☒ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☒ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☒ C

Cooler Temp (°C): #1: 3.7, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?	☒		
If YES, what time were they transferred to freezer? <u>4/30/21 1330</u>			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?			☒
Was the client contacted concerning this sample delivery?		☒	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (If N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
☐ H2SO4 lot# _____ added to samples _____ on/at _____			
☐ HCL lot# _____ added to samples _____ on/at _____			
☐ HNO3 lot# _____ added to samples _____ on/at _____			
☐ NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: Sample labels do not include date/time.

Date Logged in 4/30/21 By (print) mtg for 214 (sign) [signature]
Date Labeled 4/30/21 By (print) mtg (sign) [signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista EnvironmentalProject: City of Seaside - Former Fort OrdDate Received: 5/4/21Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler) : _____Sample Temp (°C), One from each cooler: #1: 4.0 #2: _____ #3: _____ #4: _____*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*Shipping Information: GLS

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____Cooler Temp (°C): #1: 0.8 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: [Signature] Date: 5/4/21Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal

Sample Acceptance Checklist – Rev 4, 8/8/2017



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553178430

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S92868A



41313812

ORC CA927-CI1

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Package 1 of 3

LABEL INSTRUCTIONS:

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0-8 / 4-0

Gasoline by GC/FID (5035 Prep)

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Basis: as received	Prepared: 05/06/21
Type: SAMPLE	Batch#: 266614	Prep: EPA 5030B
Lab ID: 444717-001	Sampled: 04/29/21	Analysis: EPA 8015B
Matrix: Soil	Received: 04/30/21	Analyst: EMW

Analyte	Result	RL	Units	Diln Fac	Analyzed
TPH Gasoline	ND	12	mg/Kg	3.850	05/06/21
Surrogate		%REC	Limits	Diln Fac	Analyzed
Bromofluorobenzene (FID)		61	60-140	1.000	05/07/21

Field ID: 2A-SOIL-01	Basis: as received			Prepared: 05/06/21	
Type: SAMPLE	Batch#: 266614			Prep: EPA 5030B	
Lab ID: 444717-002	Sampled: 04/29/21			Analysis: EPA 8015B	
Matrix: Soil	Received: 04/30/21			Analyst: EMW	
Analyte	Result	RL	Units	Diln Fac	Analyzed
TPH Gasoline	ND	2.4	mg/Kg	0.8100	05/07/21
Surrogate		%REC	Limits	Diln Fac	Analyzed
Bromofluorobenzene (FID)		105	60-140	1.000	05/07/21

Type: BLANK	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923520	Prepared: 05/06/21	Analyst: EMW
Matrix: Soil	Analyzed: 05/06/21	
Diln Fac: 1.000	Prep: EPA 5030B	

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Legend
ND: Not Detected
RL: Reporting Limit

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444717		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923517		Batch#: 266614		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/06/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.418	108	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			135	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923518	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	3.437	69 *	70-130	mg/Kg
Surrogate				%REC	Limits	
Bromofluorobenzene (FID)				105	60-140	

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923519	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	3.537	71	70-130	mg/Kg	3	20
Surrogate				%REC	Limits		
Bromofluorobenzene (FID)				110	60-140		

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Extractable Carbon Chain

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2-SOIL-01

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444717-001

Sampled: 04/29/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	62 *	70-130	

Field ID: 2A-SOIL-01

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444717-002

Sampled: 04/29/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	24	10	mg/Kg
ORO C28-C44 (SGCU)	26	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	93	70-130	

Type: BLANK

Batch#: 266535

Cleanup Method: EPA 3630C

Lab ID: QC923298

Prepared: 05/05/21

Analysis: EPA 8015M

Matrix: Soil

Analyzed: 05/05/21

Analyst: MES

Diln Fac: 1.000

Prep: EPA 3580

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	94	70-130	

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

ND: Not Detected

RL: Reporting Limit

Extractable Carbon Chain: Batch QC

Lab #: 444717		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923299	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	247.5	156.0	63 *	76-122	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	87	70-130

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

Extractable Carbon Chain: Batch QC

Lab #: 444717		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MS	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923300	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	3.186	250.0	182.1	72	62-126	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MSD	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923301	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Diesel C10-C28 (SGCU)	250.0	184.3	72	62-126	mg/Kg	1	35

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Legend

(SGCU): Silica gel cleanup

RPD: Relative Percent Difference

Purgeable Organics by GC/MS

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Diln Fac: 2.632	Analyzed: 05/06/21
Lab ID: 444717-001	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	13	ug/Kg
Chloromethane	ND	13	ug/Kg
Vinyl Chloride	ND	13	ug/Kg
Bromomethane	ND	13	ug/Kg
Chloroethane	ND	13	ug/Kg
Trichlorofluoromethane	ND	13	ug/Kg
Acetone	1,100	260	ug/Kg
Freon 113	ND	13	ug/Kg
1,1-Dichloroethene	ND	13	ug/Kg
Methylene Chloride	ND	13	ug/Kg
MTBE	ND	13	ug/Kg
trans-1,2-Dichloroethene	ND	13	ug/Kg
1,1-Dichloroethane	ND	13	ug/Kg
2-Butanone	ND	260	ug/Kg
cis-1,2-Dichloroethene	ND	13	ug/Kg
2,2-Dichloropropane	ND	13	ug/Kg
Chloroform	ND	13	ug/Kg
Bromochloromethane	ND	13	ug/Kg
1,1,1-Trichloroethane	ND	13	ug/Kg
1,1-Dichloropropene	ND	13	ug/Kg
Carbon Tetrachloride	ND	13	ug/Kg
1,2-Dichloroethane	ND	13	ug/Kg
Benzene	ND	13	ug/Kg
Trichloroethene	ND	13	ug/Kg
1,2-Dichloropropane	ND	13	ug/Kg
Bromodichloromethane	ND	13	ug/Kg
Dibromomethane	ND	13	ug/Kg
4-Methyl-2-Pentanone	ND	13	ug/Kg
cis-1,3-Dichloropropene	ND	13	ug/Kg
Toluene	ND	13	ug/Kg
trans-1,3-Dichloropropene	ND	13	ug/Kg
1,1,2-Trichloroethane	ND	13	ug/Kg
1,3-Dichloropropane	ND	13	ug/Kg
Tetrachloroethene	ND	13	ug/Kg
Dibromochloromethane	ND	13	ug/Kg
1,2-Dibromoethane	ND	13	ug/Kg
Chlorobenzene	ND	13	ug/Kg
1,1,1,2-Tetrachloroethane	ND	13	ug/Kg
Ethylbenzene	ND	13	ug/Kg
m,p-Xylenes	ND	26	ug/Kg
o-Xylene	ND	13	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	13	ug/Kg
Bromoform	ND	13	ug/Kg
Isopropylbenzene	ND	13	ug/Kg
1,1,2,2-Tetrachloroethane	ND	13	ug/Kg
1,2,3-Trichloropropane	ND	13	ug/Kg
Propylbenzene	ND	13	ug/Kg
Bromobenzene	ND	13	ug/Kg
1,3,5-Trimethylbenzene	ND	13	ug/Kg
2-Chlorotoluene	ND	13	ug/Kg
4-Chlorotoluene	ND	13	ug/Kg
tert-Butylbenzene	ND	13	ug/Kg
1,2,4-Trimethylbenzene	ND	13	ug/Kg
sec-Butylbenzene	ND	13	ug/Kg
para-Isopropyl Toluene	ND	13	ug/Kg
1,3-Dichlorobenzene	ND	13	ug/Kg
1,4-Dichlorobenzene	ND	13	ug/Kg
n-Butylbenzene	ND	13	ug/Kg
1,2-Dichlorobenzene	ND	13	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	13	ug/Kg
1,2,4-Trichlorobenzene	ND	13	ug/Kg
Hexachlorobutadiene	ND	13	ug/Kg
Naphthalene	ND	13	ug/Kg
1,2,3-Trichlorobenzene	ND	13	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	91	70-145	
1,2-Dichloroethane-d4	100	70-145	
Toluene-d8	110	70-145	
Bromofluorobenzene	102	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2A-SOIL-01	Diln Fac: 0.9434	Analyzed: 05/06/21
Lab ID: 444717-002	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	4.7	ug/Kg
Chloromethane	ND	4.7	ug/Kg
Vinyl Chloride	ND	4.7	ug/Kg
Bromomethane	ND	4.7	ug/Kg
Chloroethane	ND	4.7	ug/Kg
Trichlorofluoromethane	ND	4.7	ug/Kg
Acetone	ND	94	ug/Kg
Freon 113	ND	4.7	ug/Kg
1,1-Dichloroethene	ND	4.7	ug/Kg
Methylene Chloride	ND	4.7	ug/Kg
MTBE	ND	4.7	ug/Kg
trans-1,2-Dichloroethene	ND	4.7	ug/Kg
1,1-Dichloroethane	ND	4.7	ug/Kg
2-Butanone	ND	94	ug/Kg
cis-1,2-Dichloroethene	ND	4.7	ug/Kg
2,2-Dichloropropane	ND	4.7	ug/Kg
Chloroform	ND	4.7	ug/Kg
Bromochloromethane	ND	4.7	ug/Kg
1,1,1-Trichloroethane	ND	4.7	ug/Kg
1,1-Dichloropropene	ND	4.7	ug/Kg
Carbon Tetrachloride	ND	4.7	ug/Kg
1,2-Dichloroethane	ND	4.7	ug/Kg
Benzene	ND	4.7	ug/Kg
Trichloroethene	ND	4.7	ug/Kg
1,2-Dichloropropane	ND	4.7	ug/Kg
Bromodichloromethane	ND	4.7	ug/Kg
Dibromomethane	ND	4.7	ug/Kg
4-Methyl-2-Pentanone	ND	4.7	ug/Kg
cis-1,3-Dichloropropene	ND	4.7	ug/Kg
Toluene	ND	4.7	ug/Kg
trans-1,3-Dichloropropene	ND	4.7	ug/Kg
1,1,2-Trichloroethane	ND	4.7	ug/Kg
1,3-Dichloropropane	ND	4.7	ug/Kg
Tetrachloroethene	ND	4.7	ug/Kg
Dibromochloromethane	ND	4.7	ug/Kg
1,2-Dibromoethane	ND	4.7	ug/Kg
Chlorobenzene	ND	4.7	ug/Kg
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg
Ethylbenzene	ND	4.7	ug/Kg
m,p-Xylenes	ND	9.4	ug/Kg
o-Xylene	ND	4.7	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	4.7	ug/Kg
Bromoform	ND	4.7	ug/Kg
Isopropylbenzene	ND	4.7	ug/Kg
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg
1,2,3-Trichloropropane	ND	4.7	ug/Kg
Propylbenzene	ND	4.7	ug/Kg
Bromobenzene	ND	4.7	ug/Kg
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg
2-Chlorotoluene	ND	4.7	ug/Kg
4-Chlorotoluene	ND	4.7	ug/Kg
tert-Butylbenzene	ND	4.7	ug/Kg
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg
sec-Butylbenzene	ND	4.7	ug/Kg
para-Isopropyl Toluene	ND	4.7	ug/Kg
1,3-Dichlorobenzene	ND	4.7	ug/Kg
1,4-Dichlorobenzene	ND	4.7	ug/Kg
n-Butylbenzene	ND	4.7	ug/Kg
1,2-Dichlorobenzene	ND	4.7	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	4.7	ug/Kg
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg
Hexachlorobutadiene	ND	4.7	ug/Kg
Naphthalene	ND	4.7	ug/Kg
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	96	70-145	
1,2-Dichloroethane-d4	108	70-145	
Toluene-d8	102	70-145	
Bromofluorobenzene	97	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Diln Fac: 1.000	Prep: EPA 5035
Lab ID: QC923448	Batch#: 266584	Analysis: EPA 8260B
Matrix: Soil	Analyzed: 05/05/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	5.0	ug/Kg
Chloromethane	ND	5.0	ug/Kg
Vinyl Chloride	ND	5.0	ug/Kg
Bromomethane	ND	5.0	ug/Kg
Chloroethane	ND	5.0	ug/Kg
Trichlorofluoromethane	ND	5.0	ug/Kg
Acetone	ND	100	ug/Kg
Freon 113	ND	5.0	ug/Kg
1,1-Dichloroethene	ND	5.0	ug/Kg
Methylene Chloride	ND	5.0	ug/Kg
MTBE	ND	5.0	ug/Kg
trans-1,2-Dichloroethene	ND	5.0	ug/Kg
1,1-Dichloroethane	ND	5.0	ug/Kg
2-Butanone	ND	100	ug/Kg
cis-1,2-Dichloroethene	ND	5.0	ug/Kg
2,2-Dichloropropane	ND	5.0	ug/Kg
Chloroform	ND	5.0	ug/Kg
Bromochloromethane	ND	5.0	ug/Kg
1,1,1-Trichloroethane	ND	5.0	ug/Kg
1,1-Dichloropropene	ND	5.0	ug/Kg
Carbon Tetrachloride	ND	5.0	ug/Kg
1,2-Dichloroethane	ND	5.0	ug/Kg
Benzene	ND	5.0	ug/Kg
Trichloroethene	ND	5.0	ug/Kg
1,2-Dichloropropane	ND	5.0	ug/Kg
Bromodichloromethane	ND	5.0	ug/Kg
Dibromomethane	ND	5.0	ug/Kg
4-Methyl-2-Pentanone	ND	5.0	ug/Kg
cis-1,3-Dichloropropene	ND	5.0	ug/Kg
Toluene	ND	5.0	ug/Kg
trans-1,3-Dichloropropene	ND	5.0	ug/Kg
1,1,2-Trichloroethane	ND	5.0	ug/Kg
1,3-Dichloropropane	ND	5.0	ug/Kg
Tetrachloroethene	ND	5.0	ug/Kg
Dibromochloromethane	ND	5.0	ug/Kg
1,2-Dibromoethane	ND	5.0	ug/Kg
Chlorobenzene	ND	5.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg
Ethylbenzene	ND	5.0	ug/Kg
m,p-Xylenes	ND	10	ug/Kg
o-Xylene	ND	5.0	ug/Kg
Styrene	ND	5.0	ug/Kg

Purgeable Organics by GC/MS: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Bromoform	ND	5.0	ug/Kg
Isopropylbenzene	ND	5.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg
1,2,3-Trichloropropane	ND	5.0	ug/Kg
Propylbenzene	ND	5.0	ug/Kg
Bromobenzene	ND	5.0	ug/Kg
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg
2-Chlorotoluene	ND	5.0	ug/Kg
4-Chlorotoluene	ND	5.0	ug/Kg
tert-Butylbenzene	ND	5.0	ug/Kg
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg
sec-Butylbenzene	ND	5.0	ug/Kg
para-Isopropyl Toluene	ND	5.0	ug/Kg
1,3-Dichlorobenzene	ND	5.0	ug/Kg
1,4-Dichlorobenzene	ND	5.0	ug/Kg
n-Butylbenzene	ND	5.0	ug/Kg
1,2-Dichlorobenzene	ND	5.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg
Hexachlorobutadiene	ND	5.0	ug/Kg
Naphthalene	ND	5.0	ug/Kg
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	98	70-130	
1,2-Dichloroethane-d4	107	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BS

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923449

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units
1,1-Dichloroethene	50.00	51.26	103	70-131	ug/Kg
MTBE	50.00	48.03	96	69-130	ug/Kg
Benzene	50.00	49.31	99	70-130	ug/Kg
Trichloroethene	50.00	49.52	99	70-130	ug/Kg
Toluene	50.00	50.96	102	70-130	ug/Kg
Chlorobenzene	50.00	50.41	101	70-130	ug/Kg

Surrogate	%REC	Limits
Dibromofluoromethane	94	70-130
1,2-Dichloroethane-d4	94	70-145
Toluene-d8	105	70-145
Bromofluorobenzene	103	70-145

Type: BSD

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923450

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
1,1-Dichloroethene	50.00	53.82	108	70-131	ug/Kg	5	33
MTBE	50.00	51.69	103	69-130	ug/Kg	7	30
Benzene	50.00	52.61	105	70-130	ug/Kg	6	30
Trichloroethene	50.00	50.41	101	70-130	ug/Kg	2	30
Toluene	50.00	51.84	104	70-130	ug/Kg	2	30
Chlorobenzene	50.00	51.66	103	70-130	ug/Kg	2	30

Surrogate	%REC	Limits
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	99	70-145
Toluene-d8	102	70-145
Bromofluorobenzene	101	70-145

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Batch#: 266537	Prep: EPA 3546
Lab ID: 444717-001	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 2.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
Carbazole	ND	500	ug/Kg
1-Methylnaphthalene	ND	500	ug/Kg
Pyridine	ND	500	ug/Kg
N-Nitrosodimethylamine	ND	500	ug/Kg
Phenol	ND	500	ug/Kg
Aniline	ND	500	ug/Kg
bis(2-Chloroethyl)ether	ND	2,400	ug/Kg
2-Chlorophenol	ND	500	ug/Kg
1,3-Dichlorobenzene	ND	500	ug/Kg
1,4-Dichlorobenzene	ND	500	ug/Kg
Benzyl alcohol	ND	500	ug/Kg
1,2-Dichlorobenzene	ND	500	ug/Kg
2-Methylphenol	ND	500	ug/Kg
bis(2-Chloroisopropyl) ether	ND	500	ug/Kg
3-,4-Methylphenol	ND	800	ug/Kg
N-Nitroso-di-n-propylamine	ND	500	ug/Kg
Hexachloroethane	ND	500	ug/Kg
Nitrobenzene	ND	2,400	ug/Kg
Isophorone	ND	500	ug/Kg
2-Nitrophenol	ND	500	ug/Kg
2,4-Dimethylphenol	ND	500	ug/Kg
Benzoic acid	ND	2,400	ug/Kg
bis(2-Chloroethoxy)methane	ND	500	ug/Kg
2,4-Dichlorophenol	ND	500	ug/Kg
1,2,4-Trichlorobenzene	ND	500	ug/Kg
Naphthalene	ND	500	ug/Kg
4-Chloroaniline	ND	500	ug/Kg
Hexachlorobutadiene	ND	500	ug/Kg
4-Chloro-3-methylphenol	ND	500	ug/Kg
2-Methylnaphthalene	ND	500	ug/Kg
Hexachlorocyclopentadiene	ND	2,400	ug/Kg
2,4,6-Trichlorophenol	ND	500	ug/Kg
2,4,5-Trichlorophenol	ND	500	ug/Kg
2-Chloronaphthalene	ND	500	ug/Kg
2-Nitroaniline	ND	500	ug/Kg
Dimethylphthalate	ND	500	ug/Kg
Acenaphthylene	ND	500	ug/Kg
2,6-Dinitrotoluene	ND	500	ug/Kg
3-Nitroaniline	ND	500	ug/Kg
Acenaphthene	ND	500	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	2,400	ug/Kg
4-Nitrophenol	ND	500	ug/Kg
Dibenzofuran	ND	500	ug/Kg
2,4-Dinitrotoluene	ND	500	ug/Kg
Diethylphthalate	ND	500	ug/Kg
Fluorene	ND	500	ug/Kg
4-Chlorophenyl-phenylether	ND	500	ug/Kg
4-Nitroaniline	ND	500	ug/Kg
4,6-Dinitro-2-methylphenol	ND	500	ug/Kg
N-Nitrosodiphenylamine	ND	500	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	500	ug/Kg
4-Bromophenyl-phenylether	ND	500	ug/Kg
Hexachlorobenzene	ND	500	ug/Kg
Pentachlorophenol	ND	2,400	ug/Kg
Phenanthrene	ND	500	ug/Kg
Anthracene	ND	500	ug/Kg
Di-n-butylphthalate	ND	500	ug/Kg
Fluoranthene	ND	500	ug/Kg
Benzidine	ND	2,400	ug/Kg
Pyrene	ND	500	ug/Kg
Butylbenzylphthalate	ND	500	ug/Kg
3,3'-Dichlorobenzidine	ND	2,400	ug/Kg
Benzo(a)anthracene	ND	500	ug/Kg
Chrysene	ND	500	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	500	ug/Kg
Di-n-octylphthalate	ND	500	ug/Kg
Benzo(b)fluoranthene	ND	500	ug/Kg
Benzo(k)fluoranthene	ND	500	ug/Kg
Benzo(a)pyrene	ND	500	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	500	ug/Kg
Dibenz(a,h)anthracene	ND	500	ug/Kg
Benzo(g,h,i)perylene	ND	500	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	56	29-120
Phenol-d6	54	30-120
2,4,6-Tribromophenol	48	32-120
Nitrobenzene-d5	48	33-120
2-Fluorobiphenyl	45	39-120
Terphenyl-d14	52	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2A-SOIL-01	Batch#: 266537	Prep: EPA 3546
Lab ID: 444717-002	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/07/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	55	29-120
Phenol-d6	53	30-120
2,4,6-Tribromophenol	48	32-120
Nitrobenzene-d5	44	33-120
2-Fluorobiphenyl	47	39-120
Terphenyl-d14	47	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266537

Analysis: EPA 8270C

Lab ID: QC923305

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg
Surrogate	%REC	Limits	
2-Fluorophenol	56	29-120	
Phenol-d6	55	30-120	
2,4,6-Tribromophenol	47	32-120	
Nitrobenzene-d5	50	33-120	
2-Fluorobiphenyl	49	39-120	
Terphenyl-d14	71	44-125	

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266537

Analysis: EPA 8270C

Lab ID: QC923306

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,299	65	42-120	ug/Kg
2-Chlorophenol	2,000	1,302	65	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,260	63	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,393	70	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,229	61	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,278	64	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,296	65	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,402	70	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,332	67	40-124	ug/Kg
Acenaphthene	2,000	1,232	62	35-126	ug/Kg
4-Nitrophenol	2,000	1,200	60	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,299	65	40-131	ug/Kg
Pentachlorophenol	2,000	1,038	52	35-120	ug/Kg
Pyrene	2,000	1,263	63	37-135	ug/Kg
Chrysene	2,000	1,306	65	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,401	70	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			67	29-120	
Phenol-d6			72	30-120	
2,4,6-Tribromophenol			64	32-120	
Nitrobenzene-d5			69	33-120	
2-Fluorobiphenyl			65	39-120	
Terphenyl-d14			66	44-125	

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 50.00	Analyzed: 05/05/21
MSS Lab ID: 444794-001	Batch#: 266537	Prep: EPA 3546
Lab ID: QC923307	Sampled: 05/03/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/03/21	Analyst: DJL

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Phenol	<8,500	2,000	374.3	DO	37-120	ug/Kg
2-Chlorophenol	<6,500	2,000	0	DO	33-120	ug/Kg
1,4-Dichlorobenzene	<7,600	2,000	411.2	DO	32-120	ug/Kg
3-,4-Methylphenol	<8,900	2,000	826.1	DO	37-120	ug/Kg
N-Nitroso-di-n-propylamine	<9,700	2,000	3,921	DO	32-120	ug/Kg
2,4-Dimethylphenol	<8,600	2,000	1,474	DO	32-120	ug/Kg
1,2,4-Trichlorobenzene	<6,600	2,000	1,019	DO	33-120	ug/Kg
4-Chloro-3-methylphenol	<5,400	2,000	1,367	DO	41-121	ug/Kg
2,4,5-Trichlorophenol	<6,200	2,000	0	DO	40-120	ug/Kg
Acenaphthene	<6,900	2,000	719.2	DO	37-120	ug/Kg
4-Nitrophenol	<10,000	2,000	16,080	DO	20-141	ug/Kg
2,4-Dinitrotoluene	<6,600	2,000	35,880	DO	33-128	ug/Kg
Pentachlorophenol	<14,200	2,000	0	DO	28-132	ug/Kg
Pyrene	<6,800	2,000	1,296	DO	39-135	ug/Kg
Chrysene	<5,800	2,000	952.8	DO	37-135	ug/Kg
Benzo(b)fluoranthene	<6,200	2,000	1,019	DO	34-139	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	DO	29-120
Phenol-d6	DO	30-120
2,4,6-Tribromophenol	DO	32-120
Nitrobenzene-d5	DO	33-120
2-Fluorobiphenyl	DO	39-120
Terphenyl-d14	DO	44-125

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 50.00	Analyzed: 05/05/21
MSS Lab ID: 444794-001	Batch#: 266537	Prep: EPA 3546
Lab ID: QC923308	Sampled: 05/03/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/03/21	Analyst: DJL

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Phenol	2,000	0	DO	37-120	ug/Kg	NC	49
2-Chlorophenol	2,000	0	DO	33-120	ug/Kg	NC	52
1,4-Dichlorobenzene	2,000	617.7	DO	32-120	ug/Kg	NC	50
3-,4-Methylphenol	2,000	1,280	DO	37-120	ug/Kg	NC	54
N-Nitroso-di-n-propylamine	2,000	1,474	DO	32-120	ug/Kg	NC	50
2,4-Dimethylphenol	2,000	1,528	DO	32-120	ug/Kg	NC	50
1,2,4-Trichlorobenzene	2,000	691.7	DO	33-120	ug/Kg	NC	50
4-Chloro-3-methylphenol	2,000	3,056	DO	41-121	ug/Kg	NC	43
2,4,5-Trichlorophenol	2,000	2,468	DO	40-120	ug/Kg	NC	47
Acenaphthene	2,000	1,164	DO	37-120	ug/Kg	NC	48
4-Nitrophenol	2,000	24,490	DO	20-141	ug/Kg	NC	30
2,4-Dinitrotoluene	2,000	1,859	DO	33-128	ug/Kg	NC	50
Pentachlorophenol	2,000	0	DO	28-132	ug/Kg	NC	30
Pyrene	2,000	1,379	DO	39-135	ug/Kg	NC	41
Chrysene	2,000	926.4	DO	37-135	ug/Kg	NC	46
Benzo(b)fluoranthene	2,000	1,032	DO	34-139	ug/Kg	NC	47

Surrogate	%REC	Limits
2-Fluorophenol	DO	29-120
Phenol-d6	DO	30-120
2,4,6-Tribromophenol	DO	32-120
Nitrobenzene-d5	DO	33-120
2-Fluorobiphenyl	DO	39-120
Terphenyl-d14	DO	44-125

Legend

DO: Diluted Out

NC: Not Calculated

RPD: Relative Percent Difference

Organochlorine Pesticides

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444717-001	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	6.3	5.0	ug/Kg
4,4'-DDE	24	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	39	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	56	23-120
Decachlorobiphenyl	52	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2A-SOIL-01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444717-002	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 2.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
alpha-BHC	ND	10	ug/Kg
beta-BHC	ND	10	ug/Kg
gamma-BHC	ND	10	ug/Kg
delta-BHC	ND	10	ug/Kg
Heptachlor	ND	10	ug/Kg
Aldrin	ND	10	ug/Kg
Heptachlor epoxide	ND	10	ug/Kg
Endosulfan I	ND	10	ug/Kg
Dieldrin	ND	10	ug/Kg
4,4'-DDE	ND	10	ug/Kg
Endrin	ND	10	ug/Kg
Endosulfan II	ND	10	ug/Kg
Endosulfan sulfate	ND	10	ug/Kg
4,4'-DDD	ND	10	ug/Kg
Endrin aldehyde	ND	10	ug/Kg
Endrin ketone	ND	10	ug/Kg
4,4'-DDT	ND	10	ug/Kg
Methoxychlor	ND	20	ug/Kg
Toxaphene	ND	200	ug/Kg
Chlordane (Technical)	ND	100	ug/Kg

Surrogate	%REC	Limits
TCMX	57	23-120
Decachlorobiphenyl	57	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	54	23-120
Decachlorobiphenyl	55	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266559

Analysis: EPA 8081A

Lab ID: QC923377

Prepared: 05/05/21

Analyst: KTD

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Spiked	Result	%REC	Limits	Units
alpha-BHC	50.00	31.96	64	22-129	ug/Kg
beta-BHC	50.00	32.55	65	28-125	ug/Kg
gamma-BHC	50.00	32.43	65	22-128	ug/Kg
delta-BHC	50.00	32.37	65	24-131	ug/Kg
Heptachlor	50.00	32.34	65	18-124	ug/Kg
Aldrin	50.00	29.48	59	23-120	ug/Kg
Heptachlor epoxide	50.00	29.50	59	26-120	ug/Kg
Endosulfan I	50.00	32.44	65	25-126	ug/Kg
Dieldrin	50.00	32.14	64	23-124	ug/Kg
4,4'-DDE	50.00	31.77	64	28-121	ug/Kg
Endrin	50.00	32.89	66	25-127	ug/Kg
Endosulfan II	50.00	32.45	65	29-121	ug/Kg
Endosulfan sulfate	50.00	31.51	63	30-121	ug/Kg
4,4'-DDD	50.00	29.20	58	26-120	ug/Kg
Endrin aldehyde	50.00	21.32	43	10-120	ug/Kg
Endrin ketone	50.00	30.33	61	28-125	ug/Kg
4,4'-DDT	50.00	33.70	67	22-125	ug/Kg
Methoxychlor	50.00	34.76	70	28-130	ug/Kg
Surrogate			%REC	Limits	
TCMX			60	23-120	
Decachlorobiphenyl			61	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444717		Project#: 211283001				
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord				
Field ID: ZZZZZZZZZZ		Basis: as received		Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000		Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559		Prep: EPA 3546		
Lab ID: QC923378		Sampled: 04/22/21		Analysis: EPA 8081A		
Matrix: Soil		Received: 04/30/21		Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
alpha-BHC	<1.600	50.00	29.92	60	46-120	ug/Kg
beta-BHC	<1.500	50.00	29.08	58	41-120	ug/Kg
gamma-BHC	<2.000	50.00	30.42	61	41-120	ug/Kg
delta-BHC	<1.200	50.00	32.31	65	38-123	ug/Kg
Heptachlor	<1.300	50.00	26.32	53	39-120	ug/Kg
Aldrin	<1.500	50.00	28.21	56	34-120	ug/Kg
Heptachlor epoxide	<2.300	50.00	26.58	53	43-120	ug/Kg
Endosulfan I	<1.200	50.00	28.35	57	45-120	ug/Kg
Dieldrin	<2.100	50.00	28.19	56	45-120	ug/Kg
4,4'-DDE	5.593	50.00	28.74	46	34-120	ug/Kg
Endrin	<2.700	50.00	25.25	51	40-120	ug/Kg
Endosulfan II	<2.800	50.00	28.60	57	41-120	ug/Kg
Endosulfan sulfate	<3.400	50.00	28.02	56	42-120	ug/Kg
4,4'-DDD	<2.100	50.00	25.88	52	41-120	ug/Kg
Endrin aldehyde	<2.100	50.00	21.81	44	30-120	ug/Kg
Endrin ketone	<4.100	50.00	30.40	61	45-120	ug/Kg
4,4'-DDT	<2.000	50.00	30.72	61	35-127	ug/Kg
Methoxychlor	<9.200	50.00	31.27	63	42-136	ug/Kg
Surrogate				%REC	Limits	
TCMX				52	23-120	
Decachlorobiphenyl				52	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: ZZZZZZZZZZ

Basis: as received

Prepared: 05/05/21

Type: MSD

Diln Fac: 1.000

Analyzed: 05/05/21

MSS Lab ID: 444731-001

Batch#: 266559

Prep: EPA 3546

Lab ID: QC923379

Sampled: 04/22/21

Analysis: EPA 8081A

Matrix: Soil

Received: 04/30/21

Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
alpha-BHC	50.00	26.03	52	46-120	ug/Kg	14	30
beta-BHC	50.00	26.06	52	41-120	ug/Kg	11	30
gamma-BHC	50.00	27.07	54	41-120	ug/Kg	12	30
delta-BHC	50.00	28.63	57	38-123	ug/Kg	12	30
Heptachlor	50.00	23.65	47	39-120	ug/Kg	11	30
Aldrin	50.00	25.07	50	34-120	ug/Kg	12	30
Heptachlor epoxide	50.00	23.95	48	43-120	ug/Kg	10	30
Endosulfan I	50.00	25.82	52	45-120	ug/Kg	9	30
Dieldrin	50.00	24.26	49	45-120	ug/Kg	15	30
4,4'-DDE	50.00	26.17	41	34-120	ug/Kg	9	30
Endrin	50.00	18.27	37 *	40-120	ug/Kg	32 *	30
Endosulfan II	50.00	26.12	52	41-120	ug/Kg	9	30
Endosulfan sulfate	50.00	24.97	50	42-120	ug/Kg	11	30
4,4'-DDD	50.00	25.50	51	41-120	ug/Kg	1	30
Endrin aldehyde	50.00	20.61	41	30-120	ug/Kg	6	30
Endrin ketone	50.00	32.75	65	45-120	ug/Kg	7	30
4,4'-DDT	50.00	27.75	56	35-127	ug/Kg	10	30
Methoxychlor	50.00	28.64	57	42-136	ug/Kg	9	30

Surrogate	%REC	Limits
TCMX	48	23-120
Decachlorobiphenyl	48	24-120

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444717-001	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		49	19-121

Field ID: 2A-SOIL-01	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444717-002	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	220	20	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		96	19-121

Polychlorinated Biphenyls (PCBs)

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8082
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	52	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444717		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Batch#: 266559		Analysis: EPA 8082	
Lab ID: QC923380		Prepared: 05/05/21		Analyst: KTD	
Matrix: Soil		Analyzed: 05/05/21			
Diln Fac: 1.000		Prep: EPA 3546			
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	500.0	336.9	67	14-150	ug/Kg
Aroclor-1260	500.0	339.4	68	10-150	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl (PCB)			59	19-121	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444717		Project#: 211283001					
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord					
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923381		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	
Aroclor-1016	<3.000	500.0	294.7	59	42-127	ug/Kg	
Aroclor-1260	20.38	500.0	310.9	58	38-130	ug/Kg	
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				59	19-121		
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MSD		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923382		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	500.0	310.5	62	42-127	ug/Kg	5	30
Aroclor-1260	500.0	329.9	62	38-130	ug/Kg	6	30
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				63	19-121		

Legend

RPD: Relative Percent Difference

California Title 22 Metals

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2-SOIL-01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444717-001

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.5	0.98	0.66	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	29	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	13	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	1.9	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	18	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	24	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	0.16	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	9.8	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	59	4.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2A-SOIL-01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444717-002

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	2.1	1.1	0.71	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	54	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.53		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.53		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	2.4	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	140	0.53		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	40	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	2.9	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	6.8	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.53		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	5.4	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	30	5.3		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266545	Analysis: EPA 6010B
Lab ID: QC923337	Prepared: 05/05/21	Analyst: SBW
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923338

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.90	99	80-120	mg/Kg
Arsenic	100.0	99.43	99	80-120	mg/Kg
Barium	100.0	98.31	98	80-120	mg/Kg
Beryllium	100.0	94.99	95	80-120	mg/Kg
Cadmium	100.0	95.29	95	80-120	mg/Kg
Chromium	100.0	97.58	98	80-120	mg/Kg
Cobalt	100.0	102.3	102	80-120	mg/Kg
Copper	100.0	95.65	96	80-120	mg/Kg
Lead	100.0	103.7	104	80-120	mg/Kg
Molybdenum	100.0	98.87	99	80-120	mg/Kg
Nickel	100.0	100.8	101	80-120	mg/Kg
Selenium	100.0	86.06	86	80-120	mg/Kg
Silver	50.00	45.81	92	80-120	mg/Kg
Thallium	100.0	99.43	99	80-120	mg/Kg
Vanadium	100.0	101.2	101	80-120	mg/Kg
Zinc	100.0	103.7	104	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923339	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.553	93.46	43.83	47 *	75-125	mg/Kg
Arsenic	2.768	93.46	93.68	97	75-125	mg/Kg
Barium	149.6	93.46	202.2	56 *	75-125	mg/Kg
Beryllium	0.08619	93.46	85.73	92	75-125	mg/Kg
Cadmium	0.4662	93.46	87.59	93	75-125	mg/Kg
Chromium	33.01	93.46	117.3	90	75-125	mg/Kg
Cobalt	4.170	93.46	96.33	99	75-125	mg/Kg
Copper	14.80	93.46	111.0	103	75-125	mg/Kg
Lead	181.3	93.46	210.4	31 *	75-125	mg/Kg
Molybdenum	<0.5728	93.46	87.06	93	75-125	mg/Kg
Nickel	15.37	93.46	103.0	94	75-125	mg/Kg
Selenium	<1.748	93.46	80.28	86	75-125	mg/Kg
Silver	<0.1553	46.73	41.48	89	75-125	mg/Kg
Thallium	<1.068	93.46	88.50	95	75-125	mg/Kg
Vanadium	17.27	93.46	109.5	99	75-125	mg/Kg
Zinc	194.9	93.46	256.6	66 *	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923340	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	46.31	47 *	75-125	mg/Kg	1	41
Arsenic	98.04	101.7	101	75-125	mg/Kg	4	35
Barium	98.04	213.7	65 *	75-125	mg/Kg	4	20
Beryllium	98.04	90.62	92	75-125	mg/Kg	1	20
Cadmium	98.04	95.42	97	75-125	mg/Kg	4	20
Chromium	98.04	126.2	95	75-125	mg/Kg	4	20
Cobalt	98.04	99.09	97	75-125	mg/Kg	2	20
Copper	98.04	108.9	96	75-125	mg/Kg	6	20
Lead	98.04	256.1	76	75-125	mg/Kg	18	20
Molybdenum	98.04	93.64	96	75-125	mg/Kg	2	20
Nickel	98.04	108.9	95	75-125	mg/Kg	1	20
Selenium	98.04	87.23	89	75-125	mg/Kg	4	20
Silver	49.02	44.97	92	75-125	mg/Kg	3	20
Thallium	98.04	95.20	97	75-125	mg/Kg	3	20
Vanadium	98.04	114.9	100	75-125	mg/Kg	1	20
Zinc	98.04	276.1	83	75-125	mg/Kg	6	20

California Title 22 Metals: Batch QC**Lab #:** 444717**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 444717		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK		Batch#: 266563	Analysis: EPA 7471A
Lab ID: QC923394		Prepared: 05/05/21	Analyst: JDB
Matrix: Soil		Analyzed: 05/06/21	
Diln Fac: 1.000		Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 444717**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923395**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8069	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923396	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	0.2059	0.9615	1.097	93	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923397	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	1.000	1.166	96	75-125	mg/Kg	3	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 444717		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14	
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A	
Lab ID: 444717-001	Sampled: 04/29/21 13:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 04/30/21	Analyst: ATP	
Basis: as received	Prepared: 05/11/21 11:50		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 2A-SOIL-01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14	
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A	
Lab ID: 444717-002	Sampled: 04/29/21 13:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 04/30/21	Analyst: ATP	
Basis: as received	Prepared: 05/11/21 11:50		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	5.1	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 266848	Analysis: EPA 7196A	
Lab ID: QC924217	Prepared: 05/11/21 11:50	Analyst: ATP	
Matrix: Soil	Analyzed: 05/11/21 16:14		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266848

Analysis: EPA 7196A

Lab ID: QC924218

Prepared: 05/11/21 11:50

Analyst: ATP

Matrix: Soil

Analyzed: 05/11/21 16:14

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.17	105	80-120	mg/Kg

Field ID: 5-SOIL 01

Basis: as received

Prepared: 05/11/21 11:50

Type: MS

Diln Fac: 5.000

Analyzed: 05/11/21 16:14

MSS Lab ID: 444721-001

Batch#: 266848

Prep: EPA 3060A

Lab ID: QC924219

Sampled: 04/29/21 08:00

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	35.59	89	75-125	mg/Kg

Field ID: 5-SOIL 01

Basis: as received

Prepared: 05/11/21 11:50

Type: MSD

Diln Fac: 5.000

Analyzed: 05/11/21 16:14

MSS Lab ID: 444721-001

Batch#: 266848

Prep: EPA 3060A

Lab ID: QC924220

Sampled: 04/29/21 08:00

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	36.27	91	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 444718
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	444718
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
3-SOIL-01	444718-001	04/28/21 13:30	Soil
3-SOIL-02	444718-002	04/29/21 12:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 444718
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/30/21. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Low recovery was observed for TPH gasoline in the MS for batch 266614; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015M):

Low recovery was observed for diesel C10-C28 in the LCS for batch 266535; the low recovery was not associated with any reported results. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

Low surrogate recovery was observed for 2-fluorobiphenyl in 3-SOIL-01 (lab # 444718-001). No other analytical problems were encountered.

Pesticides (EPA 8081A):

Low recovery was observed for endrin in the MSD for batch 266559; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for endrin in the MS/MSD for batch 266559; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1-SOIL 01 (lab # 444715-001); the LCS was within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 444718
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

Sample ID: 3-SOIL-01

Lab ID: 444718-001

Collected: 04/28/21 13:30

Matrix: Soil

444718-001 Analyte

Result

Qual

Units

RL

MDL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic	0.89	J	mg/Kg	1.0	0.69
Barium	21		mg/Kg	1.0	
Chromium	9.8		mg/Kg	1.0	
Cobalt	120		mg/Kg	0.52	
Copper	38		mg/Kg	1.0	
Lead	3.2		mg/Kg	1.0	
Nickel	13		mg/Kg	1.0	
Vanadium	13		mg/Kg	1.0	
Zinc	9.1		mg/Kg	5.2	

Method: EPA 8015M

Prep Method: EPA 3580

DRO C10-C28 (SGCU)	10		mg/Kg	9.9	
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Method: EPA 8081A

Prep Method: EPA 3546

Heptachlor epoxide	7.9		ug/Kg	5.0	
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Sample ID: 3-SOIL-02

Lab ID: 444718-002

Collected: 04/29/21 12:30

Matrix: Soil

444718-002 Analyte

Result

Qual

Units

RL

MDL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic	1.5		mg/Kg	1.0	0.70
Barium	30		mg/Kg	1.0	
Chromium	12		mg/Kg	1.0	
Cobalt	2.1		mg/Kg	0.52	
Copper	5.7		mg/Kg	1.0	
Lead	6.5		mg/Kg	1.0	
Nickel	13		mg/Kg	1.0	
Vanadium	12		mg/Kg	1.0	
Zinc	25		mg/Kg	5.2	

J Estimated value
SGCU Silica gel cleanup

ENTHALPY ANALYTICAL Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Chain of Custody Record		Turn Around Time (rush by advanced notice only)																																																																			
		Lab No: 444718	Standard: ☒ 5 Day: ☐ 3 Day: ☐	2 Day: ☐ 1 Day: ☐ Custom TAT: ☐																																																																			
Page: of		Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other		Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = (lab use only)		Sample Receipt Temp:																																																																	
PROJECT INFORMATION		Analysis Request		Test Instructions / Comments																																																																			
CUSTOMER INFORMATION Company: Vista Environmental Consulting Report To: Chris Burns/Alesha Washington Email: chrisburns@vista-env.com Address: 2984 Teagarden Street San Leandro, Ca 94577 Phone: 510-346-8860 Fax: alesha.washington@vista-env.com Sampled By: C. Burns		Name: City of Seaside - Former Fort Ord Number: 211283001 P.O. #: Buildings Address: Global ID: Sampled By: C. Burns		VOCs & TPH-G EPA Method 8260B ☒ S-VOCs EPA Method 8270C TPH-D & MO Method 8015 following silica gel prep by Method 3630M CAM 17 Metals Method 6010B/7471A PCBs Method 8082 Organochlorine Pesticides Method 8081A Hexavalent Chromium Method 7196A																																																																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Sampling Date</th> <th>Sampling Time</th> <th>Matrix</th> <th>Container No. / Size</th> <th>Pres.</th> </tr> </thead> <tbody> <tr> <td>1 3-Soil-01</td> <td>4/20/21</td> <td>1330</td> <td>Soil</td> <td>5</td> <td>Yes</td> </tr> <tr> <td>2 3-Soil-02</td> <td>4/29/21</td> <td>1230</td> <td>Soil</td> <td>5</td> <td>Yes</td> </tr> <tr><td>3</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>		Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	1 3-Soil-01	4/20/21	1330	Soil	5	Yes	2 3-Soil-02	4/29/21	1230	Soil	5	Yes	3						4						5						6						7						8						9						10						3pr deck sample *Grain *Buildings			
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SAMPLE RECEIPT CHECKLIST

Section 1: Login # 444710 Client: Vista
 Date Received: 4/30/21 Project: _____



Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/30/21 By (print) mtc (sign) [signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☒ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☒ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____ or IR Gun # ☐ B ☒ C

Cooler Temp (°C): #1: 3.7, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?	☒		
If YES, what time were they transferred to freezer? <u>4/30/21 1330</u>			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?			☒
Was the client contacted concerning this sample delivery?		☒	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
☐ H2SO4 lot# _____ added to samples _____ on/at _____			
☐ HCL lot# _____ added to samples _____ on/at _____			
☐ HNO3 lot# _____ added to samples _____ on/at _____			
☐ NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: Sample labels do not include date/time.

Date Logged in 4/30/21 By (print) mtc (sign) [signature]
 Date Labeled 4/30/21 By (print) mtc (sign) [signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista Environmental

Project: City of Seaside - Former Fort Ord

Date Received: 5/4/21

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)Sample Temp (°C)
(No Cooler):

Sample Temp (°C), One from each cooler: #1: 4.0 #2: #3: #4:

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: GLS

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other

Cooler Temp (°C): #1: 0.8 #2: #3: #4:

Section 4

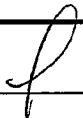
	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: Date/Time☐ Email (email sent to/on): /

Project Manager's response:

Completed By: 

Date: 5/4/21



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553178430

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

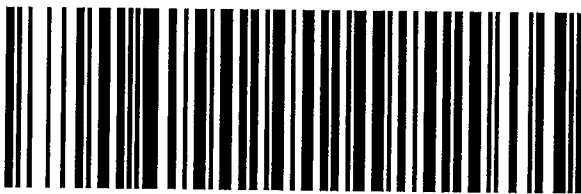
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S92868A



41313812

ORC CA927-CI1

Print Date: 5/3/2021 3:03 PM

Package 1 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

0-8 / 4-2

Gasoline by GC/FID (5035 Prep)

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-01

Batch#: 266614

Prep: EPA 5030B

Type: SAMPLE

Sampled: 04/28/21

Analysis: EPA 8015B

Lab ID: 444718-001

Received: 04/30/21

Analyst: EMW

Matrix: Soil

Prepared: 05/06/21

Basis: as received

Analyzed: 05/07/21

Analyte	Result	RL	Units	Diln Fac
TPH Gasoline	ND	7.1	mg/Kg	2.380

Surrogate	%REC	Limits	Diln Fac
Bromofluorobenzene (FID)	75	60-140	1.000

Field ID: 3-SOIL-02

Batch#: 266614

Prep: EPA 5030B

Type: SAMPLE

Sampled: 04/29/21

Analysis: EPA 8015B

Lab ID: 444718-002

Received: 04/30/21

Analyst: EMW

Matrix: Soil

Prepared: 05/06/21

Basis: as received

Analyzed: 05/07/21

Analyte	Result	RL	Units	Diln Fac
TPH Gasoline	ND	5.2	mg/Kg	1.720

Surrogate	%REC	Limits	Diln Fac
Bromofluorobenzene (FID)	61	60-140	1.000

Type: BLANK

Batch#: 266614

Analysis: EPA 8015B

Lab ID: QC923520

Prepared: 05/06/21

Analyst: EMW

Matrix: Soil

Analyzed: 05/06/21

Diln Fac: 1.000

Prep: EPA 5030B

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	60-140

Legend

ND: Not Detected

RL: Reporting Limit

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444718		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923517		Batch#: 266614		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/06/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.418	108	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			135	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923518	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	3.437	69 *	70-130	mg/Kg
Surrogate				%REC	Limits	
Bromofluorobenzene (FID)				105	60-140	

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923519	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	3.537	71	70-130	mg/Kg	3	20
Surrogate				%REC	Limits		
Bromofluorobenzene (FID)				110	60-140		

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Extractable Carbon Chain

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-01

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444718-001

Sampled: 04/28/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	10	9.9	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	86	70-130	

Field ID: 3-SOIL-02

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444718-002

Sampled: 04/29/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	93	70-130	

Type: BLANK

Batch#: 266535

Cleanup Method: EPA 3630C

Lab ID: QC923298

Prepared: 05/05/21

Analysis: EPA 8015M

Matrix: Soil

Analyzed: 05/05/21

Analyst: MES

Diln Fac: 1.000

Prep: EPA 3580

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	94	70-130	

Legend

(SGCU): Silica gel cleanup

ND: Not Detected

RL: Reporting Limit

Extractable Carbon Chain: Batch QC

Lab #: 444718		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923299	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	247.5	156.0	63 *	76-122	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	87	70-130

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

Extractable Carbon Chain: Batch QC

Lab #: 444718		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MS	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923300	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	3.186	250.0	182.1	72	62-126	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MSD	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923301	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Diesel C10-C28 (SGCU)	250.0	184.3	72	62-126	mg/Kg	1	35

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Legend

(SGCU): Silica gel cleanup

RPD: Relative Percent Difference

Purgeable Organics by GC/MS

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-01	Diln Fac: 1.515	Analyzed: 05/06/21
Lab ID: 444718-001	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/28/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	7.6	ug/Kg
Chloromethane	ND	7.6	ug/Kg
Vinyl Chloride	ND	7.6	ug/Kg
Bromomethane	ND	7.6	ug/Kg
Chloroethane	ND	7.6	ug/Kg
Trichlorofluoromethane	ND	7.6	ug/Kg
Acetone	ND	150	ug/Kg
Freon 113	ND	7.6	ug/Kg
1,1-Dichloroethene	ND	7.6	ug/Kg
Methylene Chloride	ND	7.6	ug/Kg
MTBE	ND	7.6	ug/Kg
trans-1,2-Dichloroethene	ND	7.6	ug/Kg
1,1-Dichloroethane	ND	7.6	ug/Kg
2-Butanone	ND	150	ug/Kg
cis-1,2-Dichloroethene	ND	7.6	ug/Kg
2,2-Dichloropropane	ND	7.6	ug/Kg
Chloroform	ND	7.6	ug/Kg
Bromochloromethane	ND	7.6	ug/Kg
1,1,1-Trichloroethane	ND	7.6	ug/Kg
1,1-Dichloropropene	ND	7.6	ug/Kg
Carbon Tetrachloride	ND	7.6	ug/Kg
1,2-Dichloroethane	ND	7.6	ug/Kg
Benzene	ND	7.6	ug/Kg
Trichloroethene	ND	7.6	ug/Kg
1,2-Dichloropropane	ND	7.6	ug/Kg
Bromodichloromethane	ND	7.6	ug/Kg
Dibromomethane	ND	7.6	ug/Kg
4-Methyl-2-Pentanone	ND	7.6	ug/Kg
cis-1,3-Dichloropropene	ND	7.6	ug/Kg
Toluene	ND	7.6	ug/Kg
trans-1,3-Dichloropropene	ND	7.6	ug/Kg
1,1,2-Trichloroethane	ND	7.6	ug/Kg
1,3-Dichloropropane	ND	7.6	ug/Kg
Tetrachloroethene	ND	7.6	ug/Kg
Dibromochloromethane	ND	7.6	ug/Kg
1,2-Dibromoethane	ND	7.6	ug/Kg
Chlorobenzene	ND	7.6	ug/Kg
1,1,1,2-Tetrachloroethane	ND	7.6	ug/Kg
Ethylbenzene	ND	7.6	ug/Kg
m,p-Xylenes	ND	15	ug/Kg
o-Xylene	ND	7.6	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	7.6	ug/Kg
Bromoform	ND	7.6	ug/Kg
Isopropylbenzene	ND	7.6	ug/Kg
1,1,2,2-Tetrachloroethane	ND	7.6	ug/Kg
1,2,3-Trichloropropane	ND	7.6	ug/Kg
Propylbenzene	ND	7.6	ug/Kg
Bromobenzene	ND	7.6	ug/Kg
1,3,5-Trimethylbenzene	ND	7.6	ug/Kg
2-Chlorotoluene	ND	7.6	ug/Kg
4-Chlorotoluene	ND	7.6	ug/Kg
tert-Butylbenzene	ND	7.6	ug/Kg
1,2,4-Trimethylbenzene	ND	7.6	ug/Kg
sec-Butylbenzene	ND	7.6	ug/Kg
para-Isopropyl Toluene	ND	7.6	ug/Kg
1,3-Dichlorobenzene	ND	7.6	ug/Kg
1,4-Dichlorobenzene	ND	7.6	ug/Kg
n-Butylbenzene	ND	7.6	ug/Kg
1,2-Dichlorobenzene	ND	7.6	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	7.6	ug/Kg
1,2,4-Trichlorobenzene	ND	7.6	ug/Kg
Hexachlorobutadiene	ND	7.6	ug/Kg
Naphthalene	ND	7.6	ug/Kg
1,2,3-Trichlorobenzene	ND	7.6	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	93	70-145	
1,2-Dichloroethane-d4	104	70-145	
Toluene-d8	102	70-145	
Bromofluorobenzene	98	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-02	Diln Fac: 1.190	Analyzed: 05/06/21
Lab ID: 444718-002	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	6.0	ug/Kg
Chloromethane	ND	6.0	ug/Kg
Vinyl Chloride	ND	6.0	ug/Kg
Bromomethane	ND	6.0	ug/Kg
Chloroethane	ND	6.0	ug/Kg
Trichlorofluoromethane	ND	6.0	ug/Kg
Acetone	ND	120	ug/Kg
Freon 113	ND	6.0	ug/Kg
1,1-Dichloroethene	ND	6.0	ug/Kg
Methylene Chloride	ND	6.0	ug/Kg
MTBE	ND	6.0	ug/Kg
trans-1,2-Dichloroethene	ND	6.0	ug/Kg
1,1-Dichloroethane	ND	6.0	ug/Kg
2-Butanone	ND	120	ug/Kg
cis-1,2-Dichloroethene	ND	6.0	ug/Kg
2,2-Dichloropropane	ND	6.0	ug/Kg
Chloroform	ND	6.0	ug/Kg
Bromochloromethane	ND	6.0	ug/Kg
1,1,1-Trichloroethane	ND	6.0	ug/Kg
1,1-Dichloropropene	ND	6.0	ug/Kg
Carbon Tetrachloride	ND	6.0	ug/Kg
1,2-Dichloroethane	ND	6.0	ug/Kg
Benzene	ND	6.0	ug/Kg
Trichloroethene	ND	6.0	ug/Kg
1,2-Dichloropropane	ND	6.0	ug/Kg
Bromodichloromethane	ND	6.0	ug/Kg
Dibromomethane	ND	6.0	ug/Kg
4-Methyl-2-Pentanone	ND	6.0	ug/Kg
cis-1,3-Dichloropropene	ND	6.0	ug/Kg
Toluene	ND	6.0	ug/Kg
trans-1,3-Dichloropropene	ND	6.0	ug/Kg
1,1,2-Trichloroethane	ND	6.0	ug/Kg
1,3-Dichloropropane	ND	6.0	ug/Kg
Tetrachloroethene	ND	6.0	ug/Kg
Dibromochloromethane	ND	6.0	ug/Kg
1,2-Dibromoethane	ND	6.0	ug/Kg
Chlorobenzene	ND	6.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg
Ethylbenzene	ND	6.0	ug/Kg
m,p-Xylenes	ND	12	ug/Kg
o-Xylene	ND	6.0	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	6.0	ug/Kg
Bromoform	ND	6.0	ug/Kg
Isopropylbenzene	ND	6.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg
1,2,3-Trichloropropane	ND	6.0	ug/Kg
Propylbenzene	ND	6.0	ug/Kg
Bromobenzene	ND	6.0	ug/Kg
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg
2-Chlorotoluene	ND	6.0	ug/Kg
4-Chlorotoluene	ND	6.0	ug/Kg
tert-Butylbenzene	ND	6.0	ug/Kg
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg
sec-Butylbenzene	ND	6.0	ug/Kg
para-Isopropyl Toluene	ND	6.0	ug/Kg
1,3-Dichlorobenzene	ND	6.0	ug/Kg
1,4-Dichlorobenzene	ND	6.0	ug/Kg
n-Butylbenzene	ND	6.0	ug/Kg
1,2-Dichlorobenzene	ND	6.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	6.0	ug/Kg
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg
Hexachlorobutadiene	ND	6.0	ug/Kg
Naphthalene	ND	6.0	ug/Kg
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	95	70-145	
1,2-Dichloroethane-d4	106	70-145	
Toluene-d8	101	70-145	
Bromofluorobenzene	98	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444718		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK	Diln Fac: 1.000	Prep: EPA 5035	
Lab ID: QC923448	Batch#: 266584	Analysis: EPA 8260B	
Matrix: Soil	Analyzed: 05/05/21	Analyst: RAO	
Analyte	Result	RL	Units
Freon 12	ND	5.0	ug/Kg
Chloromethane	ND	5.0	ug/Kg
Vinyl Chloride	ND	5.0	ug/Kg
Bromomethane	ND	5.0	ug/Kg
Chloroethane	ND	5.0	ug/Kg
Trichlorofluoromethane	ND	5.0	ug/Kg
Acetone	ND	100	ug/Kg
Freon 113	ND	5.0	ug/Kg
1,1-Dichloroethene	ND	5.0	ug/Kg
Methylene Chloride	ND	5.0	ug/Kg
MTBE	ND	5.0	ug/Kg
trans-1,2-Dichloroethene	ND	5.0	ug/Kg
1,1-Dichloroethane	ND	5.0	ug/Kg
2-Butanone	ND	100	ug/Kg
cis-1,2-Dichloroethene	ND	5.0	ug/Kg
2,2-Dichloropropane	ND	5.0	ug/Kg
Chloroform	ND	5.0	ug/Kg
Bromochloromethane	ND	5.0	ug/Kg
1,1,1-Trichloroethane	ND	5.0	ug/Kg
1,1-Dichloropropene	ND	5.0	ug/Kg
Carbon Tetrachloride	ND	5.0	ug/Kg
1,2-Dichloroethane	ND	5.0	ug/Kg
Benzene	ND	5.0	ug/Kg
Trichloroethene	ND	5.0	ug/Kg
1,2-Dichloropropane	ND	5.0	ug/Kg
Bromodichloromethane	ND	5.0	ug/Kg
Dibromomethane	ND	5.0	ug/Kg
4-Methyl-2-Pentanone	ND	5.0	ug/Kg
cis-1,3-Dichloropropene	ND	5.0	ug/Kg
Toluene	ND	5.0	ug/Kg
trans-1,3-Dichloropropene	ND	5.0	ug/Kg
1,1,2-Trichloroethane	ND	5.0	ug/Kg
1,3-Dichloropropane	ND	5.0	ug/Kg
Tetrachloroethene	ND	5.0	ug/Kg
Dibromochloromethane	ND	5.0	ug/Kg
1,2-Dibromoethane	ND	5.0	ug/Kg
Chlorobenzene	ND	5.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg
Ethylbenzene	ND	5.0	ug/Kg
m,p-Xylenes	ND	10	ug/Kg
o-Xylene	ND	5.0	ug/Kg
Styrene	ND	5.0	ug/Kg

Purgeable Organics by GC/MS: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Bromoform	ND	5.0	ug/Kg
Isopropylbenzene	ND	5.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg
1,2,3-Trichloropropane	ND	5.0	ug/Kg
Propylbenzene	ND	5.0	ug/Kg
Bromobenzene	ND	5.0	ug/Kg
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg
2-Chlorotoluene	ND	5.0	ug/Kg
4-Chlorotoluene	ND	5.0	ug/Kg
tert-Butylbenzene	ND	5.0	ug/Kg
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg
sec-Butylbenzene	ND	5.0	ug/Kg
para-Isopropyl Toluene	ND	5.0	ug/Kg
1,3-Dichlorobenzene	ND	5.0	ug/Kg
1,4-Dichlorobenzene	ND	5.0	ug/Kg
n-Butylbenzene	ND	5.0	ug/Kg
1,2-Dichlorobenzene	ND	5.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg
Hexachlorobutadiene	ND	5.0	ug/Kg
Naphthalene	ND	5.0	ug/Kg
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	98	70-130	
1,2-Dichloroethane-d4	107	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BS

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923449

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units
1,1-Dichloroethene	50.00	51.26	103	70-131	ug/Kg
MTBE	50.00	48.03	96	69-130	ug/Kg
Benzene	50.00	49.31	99	70-130	ug/Kg
Trichloroethene	50.00	49.52	99	70-130	ug/Kg
Toluene	50.00	50.96	102	70-130	ug/Kg
Chlorobenzene	50.00	50.41	101	70-130	ug/Kg

Surrogate	%REC	Limits
Dibromofluoromethane	94	70-130
1,2-Dichloroethane-d4	94	70-145
Toluene-d8	105	70-145
Bromofluorobenzene	103	70-145

Type: BSD

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923450

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
1,1-Dichloroethene	50.00	53.82	108	70-131	ug/Kg	5	33
MTBE	50.00	51.69	103	69-130	ug/Kg	7	30
Benzene	50.00	52.61	105	70-130	ug/Kg	6	30
Trichloroethene	50.00	50.41	101	70-130	ug/Kg	2	30
Toluene	50.00	51.84	104	70-130	ug/Kg	2	30
Chlorobenzene	50.00	51.66	103	70-130	ug/Kg	2	30

Surrogate	%REC	Limits
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	99	70-145
Toluene-d8	102	70-145
Bromofluorobenzene	101	70-145

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-01	Batch#: 266537	Prep: EPA 3546
Lab ID: 444718-001	Sampled: 04/28/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/07/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	36	29-120
Phenol-d6	40	30-120
2,4,6-Tribromophenol	51	32-120
Nitrobenzene-d5	36	33-120
2-Fluorobiphenyl	37 *	39-120
Terphenyl-d14	56	44-125

Legend

*: Value is outside QC limits

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-02	Batch#: 266537	Prep: EPA 3546
Lab ID: 444718-002	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/07/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	66	29-120
Phenol-d6	71	30-120
2,4,6-Tribromophenol	66	32-120
Nitrobenzene-d5	60	33-120
2-Fluorobiphenyl	63	39-120
Terphenyl-d14	67	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266537

Analysis: EPA 8270C

Lab ID: QC923305

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	56	29-120
Phenol-d6	55	30-120
2,4,6-Tribromophenol	47	32-120
Nitrobenzene-d5	50	33-120
2-Fluorobiphenyl	49	39-120
Terphenyl-d14	71	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266537

Analysis: EPA 8270C

Lab ID: QC923306

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,299	65	42-120	ug/Kg
2-Chlorophenol	2,000	1,302	65	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,260	63	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,393	70	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,229	61	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,278	64	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,296	65	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,402	70	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,332	67	40-124	ug/Kg
Acenaphthene	2,000	1,232	62	35-126	ug/Kg
4-Nitrophenol	2,000	1,200	60	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,299	65	40-131	ug/Kg
Pentachlorophenol	2,000	1,038	52	35-120	ug/Kg
Pyrene	2,000	1,263	63	37-135	ug/Kg
Chrysene	2,000	1,306	65	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,401	70	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			67	29-120	
Phenol-d6			72	30-120	
2,4,6-Tribromophenol			64	32-120	
Nitrobenzene-d5			69	33-120	
2-Fluorobiphenyl			65	39-120	
Terphenyl-d14			66	44-125	

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 50.00	Analyzed: 05/05/21
MSS Lab ID: 444794-001	Batch#: 266537	Prep: EPA 3546
Lab ID: QC923307	Sampled: 05/03/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/03/21	Analyst: DJL

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Phenol	<8,500	2,000	374.3	DO	37-120	ug/Kg
2-Chlorophenol	<6,500	2,000	0	DO	33-120	ug/Kg
1,4-Dichlorobenzene	<7,600	2,000	411.2	DO	32-120	ug/Kg
3-,4-Methylphenol	<8,900	2,000	826.1	DO	37-120	ug/Kg
N-Nitroso-di-n-propylamine	<9,700	2,000	3,921	DO	32-120	ug/Kg
2,4-Dimethylphenol	<8,600	2,000	1,474	DO	32-120	ug/Kg
1,2,4-Trichlorobenzene	<6,600	2,000	1,019	DO	33-120	ug/Kg
4-Chloro-3-methylphenol	<5,400	2,000	1,367	DO	41-121	ug/Kg
2,4,5-Trichlorophenol	<6,200	2,000	0	DO	40-120	ug/Kg
Acenaphthene	<6,900	2,000	719.2	DO	37-120	ug/Kg
4-Nitrophenol	<10,000	2,000	16,080	DO	20-141	ug/Kg
2,4-Dinitrotoluene	<6,600	2,000	35,880	DO	33-128	ug/Kg
Pentachlorophenol	<14,200	2,000	0	DO	28-132	ug/Kg
Pyrene	<6,800	2,000	1,296	DO	39-135	ug/Kg
Chrysene	<5,800	2,000	952.8	DO	37-135	ug/Kg
Benzo(b)fluoranthene	<6,200	2,000	1,019	DO	34-139	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	DO	29-120
Phenol-d6	DO	30-120
2,4,6-Tribromophenol	DO	32-120
Nitrobenzene-d5	DO	33-120
2-Fluorobiphenyl	DO	39-120
Terphenyl-d14	DO	44-125

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 50.00	Analyzed: 05/05/21
MSS Lab ID: 444794-001	Batch#: 266537	Prep: EPA 3546
Lab ID: QC923308	Sampled: 05/03/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/03/21	Analyst: DJL

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Phenol	2,000	0	DO	37-120	ug/Kg	NC	49
2-Chlorophenol	2,000	0	DO	33-120	ug/Kg	NC	52
1,4-Dichlorobenzene	2,000	617.7	DO	32-120	ug/Kg	NC	50
3-,4-Methylphenol	2,000	1,280	DO	37-120	ug/Kg	NC	54
N-Nitroso-di-n-propylamine	2,000	1,474	DO	32-120	ug/Kg	NC	50
2,4-Dimethylphenol	2,000	1,528	DO	32-120	ug/Kg	NC	50
1,2,4-Trichlorobenzene	2,000	691.7	DO	33-120	ug/Kg	NC	50
4-Chloro-3-methylphenol	2,000	3,056	DO	41-121	ug/Kg	NC	43
2,4,5-Trichlorophenol	2,000	2,468	DO	40-120	ug/Kg	NC	47
Acenaphthene	2,000	1,164	DO	37-120	ug/Kg	NC	48
4-Nitrophenol	2,000	24,490	DO	20-141	ug/Kg	NC	30
2,4-Dinitrotoluene	2,000	1,859	DO	33-128	ug/Kg	NC	50
Pentachlorophenol	2,000	0	DO	28-132	ug/Kg	NC	30
Pyrene	2,000	1,379	DO	39-135	ug/Kg	NC	41
Chrysene	2,000	926.4	DO	37-135	ug/Kg	NC	46
Benzo(b)fluoranthene	2,000	1,032	DO	34-139	ug/Kg	NC	47

Surrogate	%REC	Limits
2-Fluorophenol	DO	29-120
Phenol-d6	DO	30-120
2,4,6-Tribromophenol	DO	32-120
Nitrobenzene-d5	DO	33-120
2-Fluorobiphenyl	DO	39-120
Terphenyl-d14	DO	44-125

Legend

DO: Diluted Out

NC: Not Calculated

RPD: Relative Percent Difference

Organochlorine Pesticides

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444718-001	Sampled: 04/28/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	7.9	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	62	23-120
Decachlorobiphenyl	59	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-02	Batch#: 266559	Prep: EPA 3546
Lab ID: 444718-002	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	49	23-120
Decachlorobiphenyl	46	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	54	23-120
Decachlorobiphenyl	55	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923377	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
alpha-BHC	50.00	31.96	64	22-129	ug/Kg
beta-BHC	50.00	32.55	65	28-125	ug/Kg
gamma-BHC	50.00	32.43	65	22-128	ug/Kg
delta-BHC	50.00	32.37	65	24-131	ug/Kg
Heptachlor	50.00	32.34	65	18-124	ug/Kg
Aldrin	50.00	29.48	59	23-120	ug/Kg
Heptachlor epoxide	50.00	29.50	59	26-120	ug/Kg
Endosulfan I	50.00	32.44	65	25-126	ug/Kg
Dieldrin	50.00	32.14	64	23-124	ug/Kg
4,4'-DDE	50.00	31.77	64	28-121	ug/Kg
Endrin	50.00	32.89	66	25-127	ug/Kg
Endosulfan II	50.00	32.45	65	29-121	ug/Kg
Endosulfan sulfate	50.00	31.51	63	30-121	ug/Kg
4,4'-DDD	50.00	29.20	58	26-120	ug/Kg
Endrin aldehyde	50.00	21.32	43	10-120	ug/Kg
Endrin ketone	50.00	30.33	61	28-125	ug/Kg
4,4'-DDT	50.00	33.70	67	22-125	ug/Kg
Methoxychlor	50.00	34.76	70	28-130	ug/Kg
Surrogate			%REC	Limits	
TCMX			60	23-120	
Decachlorobiphenyl			61	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444718		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ		Basis: as received	Prepared: 05/05/21
Type: MS		Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001		Batch#: 266559	Prep: EPA 3546
Lab ID: QC923378		Sampled: 04/22/21	Analysis: EPA 8081A
Matrix: Soil		Received: 04/30/21	Analyst: KTD

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
alpha-BHC	<1.600	50.00	29.92	60	46-120	ug/Kg
beta-BHC	<1.500	50.00	29.08	58	41-120	ug/Kg
gamma-BHC	<2.000	50.00	30.42	61	41-120	ug/Kg
delta-BHC	<1.200	50.00	32.31	65	38-123	ug/Kg
Heptachlor	<1.300	50.00	26.32	53	39-120	ug/Kg
Aldrin	<1.500	50.00	28.21	56	34-120	ug/Kg
Heptachlor epoxide	<2.300	50.00	26.58	53	43-120	ug/Kg
Endosulfan I	<1.200	50.00	28.35	57	45-120	ug/Kg
Dieldrin	<2.100	50.00	28.19	56	45-120	ug/Kg
4,4'-DDE	5.593	50.00	28.74	46	34-120	ug/Kg
Endrin	<2.700	50.00	25.25	51	40-120	ug/Kg
Endosulfan II	<2.800	50.00	28.60	57	41-120	ug/Kg
Endosulfan sulfate	<3.400	50.00	28.02	56	42-120	ug/Kg
4,4'-DDD	<2.100	50.00	25.88	52	41-120	ug/Kg
Endrin aldehyde	<2.100	50.00	21.81	44	30-120	ug/Kg
Endrin ketone	<4.100	50.00	30.40	61	45-120	ug/Kg
4,4'-DDT	<2.000	50.00	30.72	61	35-127	ug/Kg
Methoxychlor	<9.200	50.00	31.27	63	42-136	ug/Kg

Surrogate	%REC	Limits
TCMX	52	23-120
Decachlorobiphenyl	52	24-120

Organochlorine Pesticides: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923379	Sampled: 04/22/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
alpha-BHC	50.00	26.03	52	46-120	ug/Kg	14	30
beta-BHC	50.00	26.06	52	41-120	ug/Kg	11	30
gamma-BHC	50.00	27.07	54	41-120	ug/Kg	12	30
delta-BHC	50.00	28.63	57	38-123	ug/Kg	12	30
Heptachlor	50.00	23.65	47	39-120	ug/Kg	11	30
Aldrin	50.00	25.07	50	34-120	ug/Kg	12	30
Heptachlor epoxide	50.00	23.95	48	43-120	ug/Kg	10	30
Endosulfan I	50.00	25.82	52	45-120	ug/Kg	9	30
Dieldrin	50.00	24.26	49	45-120	ug/Kg	15	30
4,4'-DDE	50.00	26.17	41	34-120	ug/Kg	9	30
Endrin	50.00	18.27	37 *	40-120	ug/Kg	32 *	30
Endosulfan II	50.00	26.12	52	41-120	ug/Kg	9	30
Endosulfan sulfate	50.00	24.97	50	42-120	ug/Kg	11	30
4,4'-DDD	50.00	25.50	51	41-120	ug/Kg	1	30
Endrin aldehyde	50.00	20.61	41	30-120	ug/Kg	6	30
Endrin ketone	50.00	32.75	65	45-120	ug/Kg	7	30
4,4'-DDT	50.00	27.75	56	35-127	ug/Kg	10	30
Methoxychlor	50.00	28.64	57	42-136	ug/Kg	9	30

Surrogate	%REC	Limits
TCMX	48	23-120
Decachlorobiphenyl	48	24-120

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-01	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444718-001	Sampled: 04/28/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		55	19-121

Field ID: 3-SOIL-02	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444718-002	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		44	19-121

Polychlorinated Biphenyls (PCBs)

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8082
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	52	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444718		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Batch#: 266559		Analysis: EPA 8082	
Lab ID: QC923380		Prepared: 05/05/21		Analyst: KTD	
Matrix: Soil		Analyzed: 05/05/21			
Diln Fac: 1.000		Prep: EPA 3546			
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	500.0	336.9	67	14-150	ug/Kg
Aroclor-1260	500.0	339.4	68	10-150	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl (PCB)			59	19-121	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923381	Sampled: 04/22/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Aroclor-1016	<3.000	500.0	294.7	59	42-127	ug/Kg
Aroclor-1260	20.38	500.0	310.9	58	38-130	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	59	19-121

Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MSD	DiIn Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923382	Sampled: 04/22/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	500.0	310.5	62	42-127	ug/Kg	5	30
Aroclor-1260	500.0	329.9	62	38-130	ug/Kg	6	30

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	63	19-121

Legend

RPD: Relative Percent Difference

California Title 22 Metals

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444718-001

Basis: as received

Sampled: 04/28/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	0.89 J	1.0	0.69	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	21	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	9.8	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	120	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	38	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	3.2	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.16		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	13	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	13	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	9.1	5.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-02

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444718-002

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.5	1.0	0.70	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	30	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	12	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	2.1	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	5.7	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	6.5	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	13	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	25	5.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923337

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266545	Analysis: EPA 6010B
Lab ID: QC923338	Prepared: 05/05/21	Analyst: SBW
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.90	99	80-120	mg/Kg
Arsenic	100.0	99.43	99	80-120	mg/Kg
Barium	100.0	98.31	98	80-120	mg/Kg
Beryllium	100.0	94.99	95	80-120	mg/Kg
Cadmium	100.0	95.29	95	80-120	mg/Kg
Chromium	100.0	97.58	98	80-120	mg/Kg
Cobalt	100.0	102.3	102	80-120	mg/Kg
Copper	100.0	95.65	96	80-120	mg/Kg
Lead	100.0	103.7	104	80-120	mg/Kg
Molybdenum	100.0	98.87	99	80-120	mg/Kg
Nickel	100.0	100.8	101	80-120	mg/Kg
Selenium	100.0	86.06	86	80-120	mg/Kg
Silver	50.00	45.81	92	80-120	mg/Kg
Thallium	100.0	99.43	99	80-120	mg/Kg
Vanadium	100.0	101.2	101	80-120	mg/Kg
Zinc	100.0	103.7	104	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923339	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.553	93.46	43.83	47 *	75-125	mg/Kg
Arsenic	2.768	93.46	93.68	97	75-125	mg/Kg
Barium	149.6	93.46	202.2	56 *	75-125	mg/Kg
Beryllium	0.08619	93.46	85.73	92	75-125	mg/Kg
Cadmium	0.4662	93.46	87.59	93	75-125	mg/Kg
Chromium	33.01	93.46	117.3	90	75-125	mg/Kg
Cobalt	4.170	93.46	96.33	99	75-125	mg/Kg
Copper	14.80	93.46	111.0	103	75-125	mg/Kg
Lead	181.3	93.46	210.4	31 *	75-125	mg/Kg
Molybdenum	<0.5728	93.46	87.06	93	75-125	mg/Kg
Nickel	15.37	93.46	103.0	94	75-125	mg/Kg
Selenium	<1.748	93.46	80.28	86	75-125	mg/Kg
Silver	<0.1553	46.73	41.48	89	75-125	mg/Kg
Thallium	<1.068	93.46	88.50	95	75-125	mg/Kg
Vanadium	17.27	93.46	109.5	99	75-125	mg/Kg
Zinc	194.9	93.46	256.6	66 *	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923340	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	46.31	47 *	75-125	mg/Kg	1	41
Arsenic	98.04	101.7	101	75-125	mg/Kg	4	35
Barium	98.04	213.7	65 *	75-125	mg/Kg	4	20
Beryllium	98.04	90.62	92	75-125	mg/Kg	1	20
Cadmium	98.04	95.42	97	75-125	mg/Kg	4	20
Chromium	98.04	126.2	95	75-125	mg/Kg	4	20
Cobalt	98.04	99.09	97	75-125	mg/Kg	2	20
Copper	98.04	108.9	96	75-125	mg/Kg	6	20
Lead	98.04	256.1	76	75-125	mg/Kg	18	20
Molybdenum	98.04	93.64	96	75-125	mg/Kg	2	20
Nickel	98.04	108.9	95	75-125	mg/Kg	1	20
Selenium	98.04	87.23	89	75-125	mg/Kg	4	20
Silver	49.02	44.97	92	75-125	mg/Kg	3	20
Thallium	98.04	95.20	97	75-125	mg/Kg	3	20
Vanadium	98.04	114.9	100	75-125	mg/Kg	1	20
Zinc	98.04	276.1	83	75-125	mg/Kg	6	20

California Title 22 Metals: Batch QC**Lab #:** 444718**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 444718		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK		Batch#: 266563	Analysis: EPA 7471A
Lab ID: QC923394		Prepared: 05/05/21	Analyst: JDB
Matrix: Soil		Analyzed: 05/06/21	
Diln Fac: 1.000		Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 444718**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923395**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8069	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923396	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	0.2059	0.9615	1.097	93	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923397	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	1.000	1.166	96	75-125	mg/Kg	3	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 444718	Project#: 211283001
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A
Lab ID: 444718-001	Sampled: 04/28/21 13:30	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP
Basis: as received	Prepared: 05/11/21 11:50	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 3-SOIL-02	Diln Fac: 1.000	Analyzed: 05/11/21 16:14
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A
Lab ID: 444718-002	Sampled: 04/29/21 12:30	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP
Basis: as received	Prepared: 05/11/21 11:50	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 266848	Analysis: EPA 7196A
Lab ID: QC924217	Prepared: 05/11/21 11:50	Analyst: ATP
Matrix: Soil	Analyzed: 05/11/21 16:14	
Diln Fac: 1.000	Prep: EPA 3060A	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266848	Analysis: EPA 7196A
Lab ID: QC924218	Prepared: 05/11/21 11:50	Analyst: ATP
Matrix: Soil	Analyzed: 05/11/21 16:14	
Diln Fac: 5.000	Prep: EPA 3060A	

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.17	105	80-120	mg/Kg

Field ID: 5-SOIL 01	Basis: as received	Prepared: 05/11/21 11:50
Type: MS	Diln Fac: 5.000	Analyzed: 05/11/21 16:14
MSS Lab ID: 444721-001	Batch#: 266848	Prep: EPA 3060A
Lab ID: QC924219	Sampled: 04/29/21 08:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	35.59	89	75-125	mg/Kg

Field ID: 5-SOIL 01	Basis: as received	Prepared: 05/11/21 11:50
Type: MSD	Diln Fac: 5.000	Analyzed: 05/11/21 16:14
MSS Lab ID: 444721-001	Batch#: 266848	Prep: EPA 3060A
Lab ID: QC924220	Sampled: 04/29/21 08:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	36.27	91	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 444721
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	444721
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
5-SOIL 01	444721-001	04/29/21 08:00	Soil
5A-SOIL 01	444721-002	04/29/21 08:30	Soil
5B-SOIL 01	444721-003	04/29/21 09:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 444721
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 04/30/21. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Low recovery was observed for TPH gasoline in the MS for batch 266614; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015M):

Low recovery was observed for diesel C10-C28 in the LCS for batch 266535; the low recovery was not associated with any reported results. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

Low recoveries were observed for many analytes in the MS/MSD for batch 266824; the parent sample was not a project sample, and the LCS was within limits. High RPD was observed for a number of analytes; these analytes were not detected at or above the RL in the associated samples. Low surrogate recovery was observed in the MSD for batch 266824; the parent sample was not a project sample. 5-SOIL 01 (lab # 444721-001) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

Pesticides (EPA 8081A):

Low recovery was observed for endrin in the MSD for batch 266559; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for endrin in the MS/MSD for batch 266559; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1-SOIL 01 (lab # 444715-001); the LCS was within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 444721
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

Sample ID: 5-SOIL 01

Lab ID: 444721-001

Collected: 04/29/21 08:00

Matrix: Soil

444721-001 Analyte

Method: EPA 6010B

Prep Method: EPA 3050B

	Result	Qual	Units	RL	MDL
Arsenic	1.1		mg/Kg	1.0	0.68
Barium	22		mg/Kg	1.0	
Chromium	11		mg/Kg	1.0	
Cobalt	1.9		mg/Kg	0.51	
Copper	3.3		mg/Kg	1.0	
Lead	8.1		mg/Kg	1.0	
Nickel	7.6		mg/Kg	1.0	
Vanadium	8.7		mg/Kg	1.0	
Zinc	25		mg/Kg	5.1	

Method: EPA 7471A

Prep Method: METHOD

Mercury	0.26		mg/Kg	0.14	
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Method: EPA 8082

Prep Method: EPA 3546

Aroclor-1260	230		ug/Kg	20	
--------------	-----	--	-------	----	--

Method: EPA 8260B

Prep Method: EPA 5035

Acetone	180		ug/Kg	140	
para-Isopropyl Toluene	11		ug/Kg	7.1	

Sample ID: 5A-SOIL 01

Lab ID: 444721-002

Collected: 04/29/21 08:30

Matrix: Soil

444721-002 Analyte

Method: EPA 6010B

Prep Method: EPA 3050B

	Result	Qual	Units	RL	MDL
Arsenic	1.0		mg/Kg	0.85	0.57
Barium	36		mg/Kg	0.85	
Chromium	11		mg/Kg	0.85	
Cobalt	260		mg/Kg	0.42	
Copper	80		mg/Kg	0.85	
Lead	3.7		mg/Kg	0.85	
Nickel	30		mg/Kg	0.85	
Vanadium	12		mg/Kg	0.85	
Zinc	17		mg/Kg	4.2	

Detection Summary

Sample ID: 5B-SOIL 01	Lab ID: 444721-003	Collected: 04/29/21 09:30
	Matrix: Soil	

444721-003 Analyte	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.3		mg/Kg	0.98	0.66
Barium	19		mg/Kg	0.98	
Chromium	11		mg/Kg	0.98	
Cobalt	200		mg/Kg	0.49	
Copper	52		mg/Kg	0.98	
Lead	1.2		mg/Kg	0.98	
Nickel	45		mg/Kg	0.98	
Vanadium	12		mg/Kg	0.98	
Zinc	11		mg/Kg	4.9	
Method: EPA 8260B					
Prep Method: EPA 5035					
Naphthalene	5.1		ug/Kg	4.2	



Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710

Phone 510-486-0900

Chain of Custody Record

Lab No:

444721

Page:

1 of 1

Turn Around Time (rush by advanced notice only)

Standard: X

5 Day:

3 Day:

2 Day:

1 Day:

Custom TAT:

Matrix: A = Air S = Soil/Solid

= Water DW = Drinking Water SD = Sediment

PP = Pure Product SEA = Sea Water

SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:

1 = Na₂S₂O₃ 2 = HCl 3 =

HNO₃

4 = H₂SO₄ 5 = NaOH 6 =

Sample Receipt Temp:

(lab use only)

CUSTOMER INFORMATION

Company: Vista Environmental Consulting

Report To: Chris Burns/Aleshia Washington

Email: chrisburns@vista-env.com

Address: 2984 Teagarden Street

San Leandro, Ca 94577

Phone: 510-346-8860

Fax: aleshia.washington@vista-env.com

PROJECT INFORMATION

Name: City of Seaside -Former Fort Ord

Number: 211283001

P.O. #:

Address: Area 5

Global ID:

Sampled By: C. Burns

Analysis Request

VOCS & TPH-G EPA Method 8260B

TPH-D & MO Method 8015 following

silica gel prep by Method 3630M

CAM 17 Metals Method 6010B/7471A

PCBs Method 8082

Organochlorine Pesticides Method 8081A

Hexavalent Chromium Method 7196A

Test Instructions / Comments

Signature

Print Name

Company / Title

Date / Time

1 Relinquished By:

1 Received By:

2 Relinquished By:

2 Received By:

3 Relinquished By:

3 Received By:

04/29/21 - 1020

4/30/21 1020

5/3/21 1740

5/4/21 1025

Luis J. Arcata

SA

SA

SA

SA

Signature

1 Relinquished By:

1 Received By:

2 Relinquished By:

2 Received By:

3 Relinquished By:

3 Received By:

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 444721
Date Received: 4/30/21

Client: Vista
Project: _____



Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/30/21 By (print) note (sign) [signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☒ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☒ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☒ C

Cooler Temp (°C): #1: 3.7, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?	☒		
If YES, what time were they transferred to freezer? <u>4/30/21 1330</u>			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?			☒
Was the client contacted concerning this sample delivery?		☒	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____
☐ HCL lot# _____ added to samples _____ on/at _____
☐ HNO3 lot# _____ added to samples _____ on/at _____
☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time.

Date Logged in 4/30/21 By (print) MTG for ZLA (sign) [signature]
Date Labeled 4/30/21 By (print) MTG (sign) [signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Vista Environmental Project: City of Seaside - Former Fort Ord
 Date Received: 5/4/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2
 Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 4.0 #2: _____ #3: _____ #4: _____
 (Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: GLS

Section 3
 Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____
 Cooler Temp (°C): #1: 0.8 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments
NO FREE-FLOWING NAHSO₄ NOTED IN 2 VIALS EACH OF SAMPLES - 001 AND 002.

Section 6
 For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: [Signature] Date: 5/4/21



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553178430

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

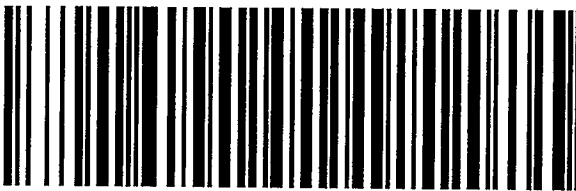
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S92868A



41313812

ORC CA927-CI1

Print Date: 5/3/2021 3:03 PM

Package 1 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

0-8 / 4-0

Gasoline by GC/FID (5035 Prep)

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Batch#: 266614	Prep: EPA 5030B
Type: SAMPLE	Sampled: 04/29/21	Analysis: EPA 8015B
Lab ID: 444721-001	Received: 04/30/21	Analyst: EMW
Matrix: Soil	Prepared: 05/06/21	
Basis: as received	Analyzed: 05/07/21	

Analyte	Result	RL	Units	Diln Fac
TPH Gasoline	ND	3.0	mg/Kg	1.000
Surrogate		%REC	Limits	Diln Fac
Bromofluorobenzene (FID)		95	60-140	1.000

Field ID: 5B-SOIL 01	Batch#: 266614	Prep: EPA 5030B
Type: SAMPLE	Sampled: 04/29/21	Analysis: EPA 8015B
Lab ID: 444721-003	Received: 04/30/21	Analyst: EMW
Matrix: Soil	Prepared: 05/06/21	
Basis: as received	Analyzed: 05/07/21	

Analyte	Result	RL	Units	Diln Fac
TPH Gasoline	ND	2.7	mg/Kg	0.9100
Surrogate		%REC	Limits	Diln Fac
Bromofluorobenzene (FID)		95	60-140	1.000

Type: BLANK	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923520	Prepared: 05/06/21	Analyst: EMW
Matrix: Soil	Analyzed: 05/06/21	
Diln Fac: 1.000	Prep: EPA 5030B	

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Legend

ND: Not Detected

RL: Reporting Limit

Total Volatile Hydrocarbons

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL 01	Diln Fac: 1.000	Prep: EPA 5030B
Type: SAMPLE	Batch#: 266640	Analysis: EPA 8015B
Lab ID: 444721-002	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/30/21	
Basis: as received	Analyzed: 05/07/21	

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Type: BLANK	Diln Fac: 1.000	Prep: EPA 5030B
Lab ID: QC923622	Batch#: 266640	Analysis: EPA 8015B
Matrix: Soil	Analyzed: 05/07/21	Analyst: EMW

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Legend
ND: Not Detected
RL: Reporting Limit

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444721		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923517		Batch#: 266614		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/06/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.418	108	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			135	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923518	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	3.437	69 *	70-130	mg/Kg
Surrogate				%REC	Limits	
Bromofluorobenzene (FID)				105	60-140	

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923519	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	3.537	71	70-130	mg/Kg	3	20
Surrogate				%REC	Limits		
Bromofluorobenzene (FID)				110	60-140		

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Total Volatile Hydrocarbons: Batch QC

Lab #: 444721		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923619		Batch#: 266640		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/07/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.156	103	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			105	60-140	

Total Volatile Hydrocarbons: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/07/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444901-001	Batch#: 266640	Analysis: EPA 8015B
Lab ID: QC923620	Sampled: 05/04/21	Analyst: EMW
Matrix: Soil	Received: 05/04/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	4.756	95	70-130	mg/Kg
Surrogate				%REC	Limits	
Bromofluorobenzene (FID)				135	60-140	

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/07/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444901-001	Batch#: 266640	Analysis: EPA 8015B
Lab ID: QC923621	Sampled: 05/04/21	Analyst: EMW
Matrix: Soil	Received: 05/04/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	4.586	92	70-130	mg/Kg	4	20
Surrogate				%REC	Limits		
Bromofluorobenzene (FID)				135	60-140		

Legend

RPD: Relative Percent Difference

Extractable Carbon Chain

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Diln Fac: 1.000	Analyzed: 05/05/21	
Type: SAMPLE	Batch#: 266535	Prep: EPA 3580	
Lab ID: 444721-001	Sampled: 04/29/21	Cleanup Method: EPA 3630C	
Matrix: Soil	Received: 04/30/21	Analysis: EPA 8015M	
Basis: as received	Prepared: 05/05/21	Analyst: MES	
Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	9.9	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	96	70-130	
Field ID: 5A-SOIL 01		Analyzed: 05/05/21	
Type: SAMPLE		Prep: EPA 3580	
Lab ID: 444721-002		Cleanup Method: EPA 3630C	
Matrix: Soil		Analysis: EPA 8015M	
Basis: as received		Analyst: MES	
Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	9.9	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	101	70-130	
Field ID: 5B-SOIL 01		Analyzed: 05/05/21	
Type: SAMPLE		Prep: EPA 3580	
Lab ID: 444721-003		Cleanup Method: EPA 3630C	
Matrix: Soil		Analysis: EPA 8015M	
Basis: as received		Analyst: MES	
Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	92	70-130	

Extractable Carbon Chain

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923298	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	94	70-130	

Legend

(SGCU): Silica gel cleanup

ND: Not Detected

RL: Reporting Limit

Extractable Carbon Chain: Batch QC

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923299	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	247.5	156.0	63 *	76-122	mg/Kg
Surrogate			%REC	Limits	
n-Triacontane (SGCU)			87	70-130	

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

Extractable Carbon Chain: Batch QC

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MS	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923300	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	3.186	250.0	182.1	72	62-126	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MSD	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923301	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Diesel C10-C28 (SGCU)	250.0	184.3	72	62-126	mg/Kg	1	35

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Legend

(SGCU): Silica gel cleanup

RPD: Relative Percent Difference

Purgeable Organics by GC/MS

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Diln Fac: 1.429	Analyzed: 05/06/21
Lab ID: 444721-001	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	7.1	ug/Kg
Chloromethane	ND	7.1	ug/Kg
Vinyl Chloride	ND	7.1	ug/Kg
Bromomethane	ND	7.1	ug/Kg
Chloroethane	ND	7.1	ug/Kg
Trichlorofluoromethane	ND	7.1	ug/Kg
Acetone	180	140	ug/Kg
Freon 113	ND	7.1	ug/Kg
1,1-Dichloroethene	ND	7.1	ug/Kg
Methylene Chloride	ND	7.1	ug/Kg
MTBE	ND	7.1	ug/Kg
trans-1,2-Dichloroethene	ND	7.1	ug/Kg
1,1-Dichloroethane	ND	7.1	ug/Kg
2-Butanone	ND	140	ug/Kg
cis-1,2-Dichloroethene	ND	7.1	ug/Kg
2,2-Dichloropropane	ND	7.1	ug/Kg
Chloroform	ND	7.1	ug/Kg
Bromochloromethane	ND	7.1	ug/Kg
1,1,1-Trichloroethane	ND	7.1	ug/Kg
1,1-Dichloropropene	ND	7.1	ug/Kg
Carbon Tetrachloride	ND	7.1	ug/Kg
1,2-Dichloroethane	ND	7.1	ug/Kg
Benzene	ND	7.1	ug/Kg
Trichloroethene	ND	7.1	ug/Kg
1,2-Dichloropropane	ND	7.1	ug/Kg
Bromodichloromethane	ND	7.1	ug/Kg
Dibromomethane	ND	7.1	ug/Kg
4-Methyl-2-Pentanone	ND	7.1	ug/Kg
cis-1,3-Dichloropropene	ND	7.1	ug/Kg
Toluene	ND	7.1	ug/Kg
trans-1,3-Dichloropropene	ND	7.1	ug/Kg
1,1,2-Trichloroethane	ND	7.1	ug/Kg
1,3-Dichloropropane	ND	7.1	ug/Kg
Tetrachloroethene	ND	7.1	ug/Kg
Dibromochloromethane	ND	7.1	ug/Kg
1,2-Dibromoethane	ND	7.1	ug/Kg
Chlorobenzene	ND	7.1	ug/Kg
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg
Ethylbenzene	ND	7.1	ug/Kg
m,p-Xylenes	ND	14	ug/Kg
o-Xylene	ND	7.1	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	7.1	ug/Kg
Bromoform	ND	7.1	ug/Kg
Isopropylbenzene	ND	7.1	ug/Kg
1,1,2,2-Tetrachloroethane	ND	7.1	ug/Kg
1,2,3-Trichloropropane	ND	7.1	ug/Kg
Propylbenzene	ND	7.1	ug/Kg
Bromobenzene	ND	7.1	ug/Kg
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg
2-Chlorotoluene	ND	7.1	ug/Kg
4-Chlorotoluene	ND	7.1	ug/Kg
tert-Butylbenzene	ND	7.1	ug/Kg
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg
sec-Butylbenzene	ND	7.1	ug/Kg
para-Isopropyl Toluene	11	7.1	ug/Kg
1,3-Dichlorobenzene	ND	7.1	ug/Kg
1,4-Dichlorobenzene	ND	7.1	ug/Kg
n-Butylbenzene	ND	7.1	ug/Kg
1,2-Dichlorobenzene	ND	7.1	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	7.1	ug/Kg
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg
Hexachlorobutadiene	ND	7.1	ug/Kg
Naphthalene	ND	7.1	ug/Kg
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	90	70-145	
1,2-Dichloroethane-d4	104	70-145	
Toluene-d8	104	70-145	
Bromofluorobenzene	96	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL 01	Diln Fac: 0.9434	Analyzed: 05/06/21
Lab ID: 444721-002	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	4.7	ug/Kg
Chloromethane	ND	4.7	ug/Kg
Vinyl Chloride	ND	4.7	ug/Kg
Bromomethane	ND	4.7	ug/Kg
Chloroethane	ND	4.7	ug/Kg
Trichlorofluoromethane	ND	4.7	ug/Kg
Acetone	ND	94	ug/Kg
Freon 113	ND	4.7	ug/Kg
1,1-Dichloroethene	ND	4.7	ug/Kg
Methylene Chloride	ND	4.7	ug/Kg
MTBE	ND	4.7	ug/Kg
trans-1,2-Dichloroethene	ND	4.7	ug/Kg
1,1-Dichloroethane	ND	4.7	ug/Kg
2-Butanone	ND	94	ug/Kg
cis-1,2-Dichloroethene	ND	4.7	ug/Kg
2,2-Dichloropropane	ND	4.7	ug/Kg
Chloroform	ND	4.7	ug/Kg
Bromochloromethane	ND	4.7	ug/Kg
1,1,1-Trichloroethane	ND	4.7	ug/Kg
1,1-Dichloropropene	ND	4.7	ug/Kg
Carbon Tetrachloride	ND	4.7	ug/Kg
1,2-Dichloroethane	ND	4.7	ug/Kg
Benzene	ND	4.7	ug/Kg
Trichloroethene	ND	4.7	ug/Kg
1,2-Dichloropropane	ND	4.7	ug/Kg
Bromodichloromethane	ND	4.7	ug/Kg
Dibromomethane	ND	4.7	ug/Kg
4-Methyl-2-Pentanone	ND	4.7	ug/Kg
cis-1,3-Dichloropropene	ND	4.7	ug/Kg
Toluene	ND	4.7	ug/Kg
trans-1,3-Dichloropropene	ND	4.7	ug/Kg
1,1,2-Trichloroethane	ND	4.7	ug/Kg
1,3-Dichloropropane	ND	4.7	ug/Kg
Tetrachloroethene	ND	4.7	ug/Kg
Dibromochloromethane	ND	4.7	ug/Kg
1,2-Dibromoethane	ND	4.7	ug/Kg
Chlorobenzene	ND	4.7	ug/Kg
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg
Ethylbenzene	ND	4.7	ug/Kg
m,p-Xylenes	ND	9.4	ug/Kg
o-Xylene	ND	4.7	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	4.7	ug/Kg
Bromoform	ND	4.7	ug/Kg
Isopropylbenzene	ND	4.7	ug/Kg
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg
1,2,3-Trichloropropane	ND	4.7	ug/Kg
Propylbenzene	ND	4.7	ug/Kg
Bromobenzene	ND	4.7	ug/Kg
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg
2-Chlorotoluene	ND	4.7	ug/Kg
4-Chlorotoluene	ND	4.7	ug/Kg
tert-Butylbenzene	ND	4.7	ug/Kg
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg
sec-Butylbenzene	ND	4.7	ug/Kg
para-Isopropyl Toluene	ND	4.7	ug/Kg
1,3-Dichlorobenzene	ND	4.7	ug/Kg
1,4-Dichlorobenzene	ND	4.7	ug/Kg
n-Butylbenzene	ND	4.7	ug/Kg
1,2-Dichlorobenzene	ND	4.7	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	4.7	ug/Kg
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg
Hexachlorobutadiene	ND	4.7	ug/Kg
Naphthalene	ND	4.7	ug/Kg
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	94	70-145	
1,2-Dichloroethane-d4	106	70-145	
Toluene-d8	100	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5B-SOIL 01	Diln Fac: 0.8333	Analyzed: 05/06/21
Lab ID: 444721-003	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	4.2	ug/Kg
Chloromethane	ND	4.2	ug/Kg
Vinyl Chloride	ND	4.2	ug/Kg
Bromomethane	ND	4.2	ug/Kg
Chloroethane	ND	4.2	ug/Kg
Trichlorofluoromethane	ND	4.2	ug/Kg
Acetone	ND	83	ug/Kg
Freon 113	ND	4.2	ug/Kg
1,1-Dichloroethene	ND	4.2	ug/Kg
Methylene Chloride	ND	4.2	ug/Kg
MTBE	ND	4.2	ug/Kg
trans-1,2-Dichloroethene	ND	4.2	ug/Kg
1,1-Dichloroethane	ND	4.2	ug/Kg
2-Butanone	ND	83	ug/Kg
cis-1,2-Dichloroethene	ND	4.2	ug/Kg
2,2-Dichloropropane	ND	4.2	ug/Kg
Chloroform	ND	4.2	ug/Kg
Bromochloromethane	ND	4.2	ug/Kg
1,1,1-Trichloroethane	ND	4.2	ug/Kg
1,1-Dichloropropene	ND	4.2	ug/Kg
Carbon Tetrachloride	ND	4.2	ug/Kg
1,2-Dichloroethane	ND	4.2	ug/Kg
Benzene	ND	4.2	ug/Kg
Trichloroethene	ND	4.2	ug/Kg
1,2-Dichloropropane	ND	4.2	ug/Kg
Bromodichloromethane	ND	4.2	ug/Kg
Dibromomethane	ND	4.2	ug/Kg
4-Methyl-2-Pentanone	ND	4.2	ug/Kg
cis-1,3-Dichloropropene	ND	4.2	ug/Kg
Toluene	ND	4.2	ug/Kg
trans-1,3-Dichloropropene	ND	4.2	ug/Kg
1,1,2-Trichloroethane	ND	4.2	ug/Kg
1,3-Dichloropropane	ND	4.2	ug/Kg
Tetrachloroethene	ND	4.2	ug/Kg
Dibromochloromethane	ND	4.2	ug/Kg
1,2-Dibromoethane	ND	4.2	ug/Kg
Chlorobenzene	ND	4.2	ug/Kg
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg
Ethylbenzene	ND	4.2	ug/Kg
m,p-Xylenes	ND	8.3	ug/Kg
o-Xylene	ND	4.2	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	4.2	ug/Kg
Bromoform	ND	4.2	ug/Kg
Isopropylbenzene	ND	4.2	ug/Kg
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg
1,2,3-Trichloropropane	ND	4.2	ug/Kg
Propylbenzene	ND	4.2	ug/Kg
Bromobenzene	ND	4.2	ug/Kg
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg
2-Chlorotoluene	ND	4.2	ug/Kg
4-Chlorotoluene	ND	4.2	ug/Kg
tert-Butylbenzene	ND	4.2	ug/Kg
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg
sec-Butylbenzene	ND	4.2	ug/Kg
para-Isopropyl Toluene	ND	4.2	ug/Kg
1,3-Dichlorobenzene	ND	4.2	ug/Kg
1,4-Dichlorobenzene	ND	4.2	ug/Kg
n-Butylbenzene	ND	4.2	ug/Kg
1,2-Dichlorobenzene	ND	4.2	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	4.2	ug/Kg
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg
Hexachlorobutadiene	ND	4.2	ug/Kg
Naphthalene	5.1	4.2	ug/Kg
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	96	70-145	
1,2-Dichloroethane-d4	109	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	96	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923448

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	5.0	ug/Kg
Chloromethane	ND	5.0	ug/Kg
Vinyl Chloride	ND	5.0	ug/Kg
Bromomethane	ND	5.0	ug/Kg
Chloroethane	ND	5.0	ug/Kg
Trichlorofluoromethane	ND	5.0	ug/Kg
Acetone	ND	100	ug/Kg
Freon 113	ND	5.0	ug/Kg
1,1-Dichloroethene	ND	5.0	ug/Kg
Methylene Chloride	ND	5.0	ug/Kg
MTBE	ND	5.0	ug/Kg
trans-1,2-Dichloroethene	ND	5.0	ug/Kg
1,1-Dichloroethane	ND	5.0	ug/Kg
2-Butanone	ND	100	ug/Kg
cis-1,2-Dichloroethene	ND	5.0	ug/Kg
2,2-Dichloropropane	ND	5.0	ug/Kg
Chloroform	ND	5.0	ug/Kg
Bromochloromethane	ND	5.0	ug/Kg
1,1,1-Trichloroethane	ND	5.0	ug/Kg
1,1-Dichloropropene	ND	5.0	ug/Kg
Carbon Tetrachloride	ND	5.0	ug/Kg
1,2-Dichloroethane	ND	5.0	ug/Kg
Benzene	ND	5.0	ug/Kg
Trichloroethene	ND	5.0	ug/Kg
1,2-Dichloropropane	ND	5.0	ug/Kg
Bromodichloromethane	ND	5.0	ug/Kg
Dibromomethane	ND	5.0	ug/Kg
4-Methyl-2-Pentanone	ND	5.0	ug/Kg
cis-1,3-Dichloropropene	ND	5.0	ug/Kg
Toluene	ND	5.0	ug/Kg
trans-1,3-Dichloropropene	ND	5.0	ug/Kg
1,1,2-Trichloroethane	ND	5.0	ug/Kg
1,3-Dichloropropane	ND	5.0	ug/Kg
Tetrachloroethene	ND	5.0	ug/Kg
Dibromochloromethane	ND	5.0	ug/Kg
1,2-Dibromoethane	ND	5.0	ug/Kg
Chlorobenzene	ND	5.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg
Ethylbenzene	ND	5.0	ug/Kg
m,p-Xylenes	ND	10	ug/Kg
o-Xylene	ND	5.0	ug/Kg
Styrene	ND	5.0	ug/Kg

Purgeable Organics by GC/MS: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Bromoform	ND	5.0	ug/Kg
Isopropylbenzene	ND	5.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg
1,2,3-Trichloropropane	ND	5.0	ug/Kg
Propylbenzene	ND	5.0	ug/Kg
Bromobenzene	ND	5.0	ug/Kg
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg
2-Chlorotoluene	ND	5.0	ug/Kg
4-Chlorotoluene	ND	5.0	ug/Kg
tert-Butylbenzene	ND	5.0	ug/Kg
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg
sec-Butylbenzene	ND	5.0	ug/Kg
para-Isopropyl Toluene	ND	5.0	ug/Kg
1,3-Dichlorobenzene	ND	5.0	ug/Kg
1,4-Dichlorobenzene	ND	5.0	ug/Kg
n-Butylbenzene	ND	5.0	ug/Kg
1,2-Dichlorobenzene	ND	5.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg
Hexachlorobutadiene	ND	5.0	ug/Kg
Naphthalene	ND	5.0	ug/Kg
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	98	70-130	
1,2-Dichloroethane-d4	107	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BS		Diln Fac: 1.000	Prep: EPA 5035
Lab ID: QC923449		Batch#: 266584	Analysis: EPA 8260B
Matrix: Soil		Analyzed: 05/05/21	Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units
1,1-Dichloroethene	50.00	51.26	103	70-131	ug/Kg
MTBE	50.00	48.03	96	69-130	ug/Kg
Benzene	50.00	49.31	99	70-130	ug/Kg
Trichloroethene	50.00	49.52	99	70-130	ug/Kg
Toluene	50.00	50.96	102	70-130	ug/Kg
Chlorobenzene	50.00	50.41	101	70-130	ug/Kg

Surrogate	%REC	Limits
Dibromofluoromethane	94	70-130
1,2-Dichloroethane-d4	94	70-145
Toluene-d8	105	70-145
Bromofluorobenzene	103	70-145

Type: BSD	Diln Fac: 1.000	Prep: EPA 5035
Lab ID: QC923450	Batch#: 266584	Analysis: EPA 8260B
Matrix: Soil	Analyzed: 05/05/21	Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
1,1-Dichloroethene	50.00	53.82	108	70-131	ug/Kg	5	33
MTBE	50.00	51.69	103	69-130	ug/Kg	7	30
Benzene	50.00	52.61	105	70-130	ug/Kg	6	30
Trichloroethene	50.00	50.41	101	70-130	ug/Kg	2	30
Toluene	50.00	51.84	104	70-130	ug/Kg	2	30
Chlorobenzene	50.00	51.66	103	70-130	ug/Kg	2	30

Surrogate	%REC	Limits
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	99	70-145
Toluene-d8	102	70-145
Bromofluorobenzene	101	70-145

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Batch#: 266538	Prep: EPA 3546
Lab ID: 444721-001	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 4.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
Carbazole	ND	1,000	ug/Kg
1-Methylnaphthalene	ND	1,000	ug/Kg
Pyridine	ND	1,000	ug/Kg
N-Nitrosodimethylamine	ND	1,000	ug/Kg
Phenol	ND	1,000	ug/Kg
Aniline	ND	1,000	ug/Kg
bis(2-Chloroethyl)ether	ND	4,800	ug/Kg
2-Chlorophenol	ND	1,000	ug/Kg
1,3-Dichlorobenzene	ND	1,000	ug/Kg
1,4-Dichlorobenzene	ND	1,000	ug/Kg
Benzyl alcohol	ND	1,000	ug/Kg
1,2-Dichlorobenzene	ND	1,000	ug/Kg
2-Methylphenol	ND	1,000	ug/Kg
bis(2-Chloroisopropyl) ether	ND	1,000	ug/Kg
3-,4-Methylphenol	ND	1,600	ug/Kg
N-Nitroso-di-n-propylamine	ND	1,000	ug/Kg
Hexachloroethane	ND	1,000	ug/Kg
Nitrobenzene	ND	4,800	ug/Kg
Isophorone	ND	1,000	ug/Kg
2-Nitrophenol	ND	1,000	ug/Kg
2,4-Dimethylphenol	ND	1,000	ug/Kg
Benzoic acid	ND	4,800	ug/Kg
bis(2-Chloroethoxy)methane	ND	1,000	ug/Kg
2,4-Dichlorophenol	ND	1,000	ug/Kg
1,2,4-Trichlorobenzene	ND	1,000	ug/Kg
Naphthalene	ND	1,000	ug/Kg
4-Chloroaniline	ND	1,000	ug/Kg
Hexachlorobutadiene	ND	1,000	ug/Kg
4-Chloro-3-methylphenol	ND	1,000	ug/Kg
2-Methylnaphthalene	ND	1,000	ug/Kg
Hexachlorocyclopentadiene	ND	4,800	ug/Kg
2,4,6-Trichlorophenol	ND	1,000	ug/Kg
2,4,5-Trichlorophenol	ND	1,000	ug/Kg
2-Chloronaphthalene	ND	1,000	ug/Kg
2-Nitroaniline	ND	1,000	ug/Kg
Dimethylphthalate	ND	1,000	ug/Kg
Acenaphthylene	ND	1,000	ug/Kg
2,6-Dinitrotoluene	ND	1,000	ug/Kg
3-Nitroaniline	ND	1,000	ug/Kg
Acenaphthene	ND	1,000	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	4,800	ug/Kg
4-Nitrophenol	ND	1,000	ug/Kg
Dibenzofuran	ND	1,000	ug/Kg
2,4-Dinitrotoluene	ND	1,000	ug/Kg
Diethylphthalate	ND	1,000	ug/Kg
Fluorene	ND	1,000	ug/Kg
4-Chlorophenyl-phenylether	ND	1,000	ug/Kg
4-Nitroaniline	ND	1,000	ug/Kg
4,6-Dinitro-2-methylphenol	ND	1,000	ug/Kg
N-Nitrosodiphenylamine	ND	1,000	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	1,000	ug/Kg
4-Bromophenyl-phenylether	ND	1,000	ug/Kg
Hexachlorobenzene	ND	1,000	ug/Kg
Pentachlorophenol	ND	4,800	ug/Kg
Phenanthrene	ND	1,000	ug/Kg
Anthracene	ND	1,000	ug/Kg
Di-n-butylphthalate	ND	1,000	ug/Kg
Fluoranthene	ND	1,000	ug/Kg
Benzidine	ND	4,800	ug/Kg
Pyrene	ND	1,000	ug/Kg
Butylbenzylphthalate	ND	1,000	ug/Kg
3,3'-Dichlorobenzidine	ND	4,800	ug/Kg
Benzo(a)anthracene	ND	1,000	ug/Kg
Chrysene	ND	1,000	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	1,000	ug/Kg
Di-n-octylphthalate	ND	1,000	ug/Kg
Benzo(b)fluoranthene	ND	1,000	ug/Kg
Benzo(k)fluoranthene	ND	1,000	ug/Kg
Benzo(a)pyrene	ND	1,000	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	1,000	ug/Kg
Dibenz(a,h)anthracene	ND	1,000	ug/Kg
Benzo(g,h,i)perylene	ND	1,000	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	47	29-120
Phenol-d6	51	30-120
2,4,6-Tribromophenol	46	32-120
Nitrobenzene-d5	45	33-120
2-Fluorobiphenyl	45	39-120
Terphenyl-d14	54	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL 01	Batch#: 266824	Prep: EPA 3546
Lab ID: 444721-002	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/10/21	
Diln Fac: 1.000	Analyzed: 05/11/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	58	29-120
Phenol-d6	58	30-120
2,4,6-Tribromophenol	47	32-120
Nitrobenzene-d5	51	33-120
2-Fluorobiphenyl	54	39-120
Terphenyl-d14	49	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5B-SOIL 01	Batch#: 266824	Prep: EPA 3546
Lab ID: 444721-003	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/10/21	
Diln Fac: 1.000	Analyzed: 05/11/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	58	29-120
Phenol-d6	60	30-120
2,4,6-Tribromophenol	58	32-120
Nitrobenzene-d5	51	33-120
2-Fluorobiphenyl	54	39-120
Terphenyl-d14	62	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266538

Analysis: EPA 8270C

Lab ID: QC923309

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/06/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg
Surrogate	%REC	Limits	
2-Fluorophenol	60	29-120	
Phenol-d6	59	30-120	
2,4,6-Tribromophenol	50	32-120	
Nitrobenzene-d5	59	33-120	
2-Fluorobiphenyl	55	39-120	
Terphenyl-d14	58	44-125	

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266538	Analysis: EPA 8270C
Lab ID: QC923310	Prepared: 05/05/21	Analyst: DJL
Matrix: Soil	Analyzed: 05/06/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,160	58	42-120	ug/Kg
2-Chlorophenol	2,000	1,153	58	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,165	58	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,203	60	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,127	56	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,145	57	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,164	58	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,165	58	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,069	53	40-124	ug/Kg
Acenaphthene	2,000	1,094	55	35-126	ug/Kg
4-Nitrophenol	2,000	1,009	50	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,128	56	40-131	ug/Kg
Pentachlorophenol	2,000	885.2	44	35-120	ug/Kg
Pyrene	2,000	1,081	54	37-135	ug/Kg
Chrysene	2,000	1,124	56	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,232	62	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			63	29-120	
Phenol-d6			65	30-120	
2,4,6-Tribromophenol			59	32-120	
Nitrobenzene-d5			65	33-120	
2-Fluorobiphenyl			58	39-120	
Terphenyl-d14			59	44-125	

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 4C-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444719-003	Batch#: 266538	Prep: EPA 3546
Lab ID: QC923311	Sampled: 04/28/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Phenol	<85.00	2,000	1,199	60	37-120	ug/Kg
2-Chlorophenol	<65.00	2,000	1,192	60	33-120	ug/Kg
1,4-Dichlorobenzene	<76.00	2,000	1,173	59	32-120	ug/Kg
3-,4-Methylphenol	<89.00	2,000	1,297	65	37-120	ug/Kg
N-Nitroso-di-n-propylamine	<97.00	2,000	1,138	57	32-120	ug/Kg
2,4-Dimethylphenol	<86.00	2,000	1,212	61	32-120	ug/Kg
1,2,4-Trichlorobenzene	<66.00	2,000	1,216	61	33-120	ug/Kg
4-Chloro-3-methylphenol	<54.00	2,000	1,225	61	41-121	ug/Kg
2,4,5-Trichlorophenol	<62.00	2,000	1,191	60	40-120	ug/Kg
Acenaphthene	<69.00	2,000	1,091	55	37-120	ug/Kg
4-Nitrophenol	<100.0	2,000	933.8	47	20-141	ug/Kg
2,4-Dinitrotoluene	<66.00	2,000	1,096	55	33-128	ug/Kg
Pentachlorophenol	<142.0	2,000	946.9	47	28-132	ug/Kg
Pyrene	<68.00	2,000	1,175	59	39-135	ug/Kg
Chrysene	<58.00	2,000	1,198	60	37-135	ug/Kg
Benzo(b)fluoranthene	<62.00	2,000	1,313	66	34-139	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	64	29-120
Phenol-d6	69	30-120
2,4,6-Tribromophenol	63	32-120
Nitrobenzene-d5	64	33-120
2-Fluorobiphenyl	59	39-120
Terphenyl-d14	64	44-125

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 4C-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444719-003	Batch#: 266538	Prep: EPA 3546
Lab ID: QC923312	Sampled: 04/28/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Phenol	2,000	1,236	62	37-120	ug/Kg	3	49
2-Chlorophenol	2,000	1,183	59	33-120	ug/Kg	1	52
1,4-Dichlorobenzene	2,000	1,162	58	32-120	ug/Kg	1	50
3-,4-Methylphenol	2,000	1,194	60	37-120	ug/Kg	8	54
N-Nitroso-di-n-propylamine	2,000	1,079	54	32-120	ug/Kg	5	50
2,4-Dimethylphenol	2,000	1,204	60	32-120	ug/Kg	1	50
1,2,4-Trichlorobenzene	2,000	1,176	59	33-120	ug/Kg	3	50
4-Chloro-3-methylphenol	2,000	1,128	56	41-121	ug/Kg	8	43
2,4,5-Trichlorophenol	2,000	1,129	56	40-120	ug/Kg	5	47
Acenaphthene	2,000	1,041	52	37-120	ug/Kg	5	48
4-Nitrophenol	2,000	1,048	52	20-141	ug/Kg	12	30
2,4-Dinitrotoluene	2,000	983.0	49	33-128	ug/Kg	11	50
Pentachlorophenol	2,000	920.8	46	28-132	ug/Kg	3	30
Pyrene	2,000	1,090	55	39-135	ug/Kg	8	41
Chrysene	2,000	1,069	53	37-135	ug/Kg	11	46
Benzo(b)fluoranthene	2,000	1,194	60	34-139	ug/Kg	10	47

Surrogate	%REC	Limits
2-Fluorophenol	66	29-120
Phenol-d6	68	30-120
2,4,6-Tribromophenol	55	32-120
Nitrobenzene-d5	63	33-120
2-Fluorobiphenyl	55	39-120
Terphenyl-d14	59	44-125

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266824

Analysis: EPA 8270C

Lab ID: QC924142

Prepared: 05/10/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/10/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg
Surrogate	%REC	Limits	
2-Fluorophenol	60	29-120	
Phenol-d6	62	30-120	
2,4,6-Tribromophenol	54	32-120	
Nitrobenzene-d5	59	33-120	
2-Fluorobiphenyl	58	39-120	
Terphenyl-d14	62	44-125	

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266824	Analysis: EPA 8270C
Lab ID: QC924143	Prepared: 05/10/21	Analyst: DJL
Matrix: Soil	Analyzed: 05/10/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,143	57	42-120	ug/Kg
2-Chlorophenol	2,000	1,149	57	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,142	57	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,207	60	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,164	58	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,171	59	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,205	60	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,210	61	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,251	63	40-124	ug/Kg
Acenaphthene	2,000	1,174	59	35-126	ug/Kg
4-Nitrophenol	2,000	1,138	57	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,262	63	40-131	ug/Kg
Pentachlorophenol	2,000	1,007	50	35-120	ug/Kg
Pyrene	2,000	1,175	59	37-135	ug/Kg
Chrysene	2,000	1,260	63	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,396	70	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			55	29-120	
Phenol-d6			57	30-120	
2,4,6-Tribromophenol			64	32-120	
Nitrobenzene-d5			58	33-120	
2-Fluorobiphenyl			60	39-120	
Terphenyl-d14			59	44-125	

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: <u>ZZZZZZZZZZ</u>	Basis: as received	Prepared: 05/10/21
Type: MS	Diln Fac: 10.00	Analyzed: 05/10/21
MSS Lab ID: 445035-007	Batch#: 266824	Prep: EPA 3546
Lab ID: QC924144	Sampled: 05/05/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/05/21	Analyst: DJL

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Phenol	<850.0	2,000	726.7	0 *	37-120	ug/Kg
2-Chlorophenol	<650.0	2,000	808.6	40	33-120	ug/Kg
1,4-Dichlorobenzene	<760.0	2,000	657.6	0 *	32-120	ug/Kg
3-,4-Methylphenol	<890.0	2,000	821.2	0 *	37-120	ug/Kg
N-Nitroso-di-n-propylamine	<970.0	2,000	713.9	0 *	32-120	ug/Kg
2,4-Dimethylphenol	<860.0	2,000	558.9	0 *	32-120	ug/Kg
1,2,4-Trichlorobenzene	<660.0	2,000	790.3	40	33-120	ug/Kg
4-Chloro-3-methylphenol	<540.0	2,000	753.4	38 *	41-121	ug/Kg
2,4,5-Trichlorophenol	<620.0	2,000	873.7	DO	40-120	ug/Kg
Acenaphthene	<690.0	2,000	1,210	61	37-120	ug/Kg
4-Nitrophenol	<1,000	2,000	1,855	DO	20-141	ug/Kg
2,4-Dinitrotoluene	<660.0	2,000	812.3	41	33-128	ug/Kg
Pentachlorophenol	<1,420	2,000	2,831	DO	28-132	ug/Kg
Pyrene	2,790	2,000	3,294	25 *	39-135	ug/Kg
Chrysene	1,376	2,000	2,128	38	37-135	ug/Kg
Benzo(b)fluoranthene	831.9	2,000	1,802	48	34-139	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	31	29-120
Phenol-d6	42	30-120
2,4,6-Tribromophenol	44	32-120
Nitrobenzene-d5	39	33-120
2-Fluorobiphenyl	43	39-120
Terphenyl-d14	50	44-125

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/10/21
Type: MSD	Diln Fac: 10.00	Analyzed: 05/10/21
MSS Lab ID: 445035-007	Batch#: 266824	Prep: EPA 3546
Lab ID: QC924145	Sampled: 05/05/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/05/21	Analyst: DJL

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Phenol	2,000	580.3	0 *	37-120	ug/Kg	22	49
2-Chlorophenol	2,000	580.3	0 *	33-120	ug/Kg	33	52
1,4-Dichlorobenzene	2,000	664.2	0 *	32-120	ug/Kg	1	50
3-,4-Methylphenol	2,000	646.5	0 *	37-120	ug/Kg	24	54
N-Nitroso-di-n-propylamine	2,000	519.0	0 *	32-120	ug/Kg	32	50
2,4-Dimethylphenol	2,000	547.8	0 *	32-120	ug/Kg	2	50
1,2,4-Trichlorobenzene	2,000	621.2	0 *	33-120	ug/Kg	24	50
4-Chloro-3-methylphenol	2,000	634.0	32 *	41-121	ug/Kg	17	43
2,4,5-Trichlorophenol	2,000	660.2	DO	40-120	ug/Kg	NC	47
Acenaphthene	2,000	723.5	36 *	37-120	ug/Kg	50 *	48
4-Nitrophenol	2,000	1,792	DO	20-141	ug/Kg	NC	30
2,4-Dinitrotoluene	2,000	704.0	35	33-128	ug/Kg	14	50
Pentachlorophenol	2,000	2,781	DO	28-132	ug/Kg	NC	30
Pyrene	2,000	1,166	-81 *	39-135	ug/Kg	95 *	41
Chrysene	2,000	1,123	-13 *	37-135	ug/Kg	62 *	46
Benzo(b)fluoranthene	2,000	1,060	11 *	34-139	ug/Kg	52 *	47

Surrogate	%REC	Limits
2-Fluorophenol	25 *	29-120
Phenol-d6	25 *	30-120
2,4,6-Tribromophenol	22 *	32-120
Nitrobenzene-d5	24 *	33-120
2-Fluorobiphenyl	28 *	39-120
Terphenyl-d14	34 *	44-125

Legend

*: Value is outside QC limits

DO: Diluted Out

NC: Not Calculated

RPD: Relative Percent Difference

Organochlorine Pesticides

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-001	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	61	23-120
Decachlorobiphenyl	60	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL 01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-002	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	64	23-120
Decachlorobiphenyl	87	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5B-SOIL 01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-003	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	63	23-120
Decachlorobiphenyl	63	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	54	23-120
Decachlorobiphenyl	55	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266559

Analysis: EPA 8081A

Lab ID: QC923377

Prepared: 05/05/21

Analyst: KTD

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Spiked	Result	%REC	Limits	Units
alpha-BHC	50.00	31.96	64	22-129	ug/Kg
beta-BHC	50.00	32.55	65	28-125	ug/Kg
gamma-BHC	50.00	32.43	65	22-128	ug/Kg
delta-BHC	50.00	32.37	65	24-131	ug/Kg
Heptachlor	50.00	32.34	65	18-124	ug/Kg
Aldrin	50.00	29.48	59	23-120	ug/Kg
Heptachlor epoxide	50.00	29.50	59	26-120	ug/Kg
Endosulfan I	50.00	32.44	65	25-126	ug/Kg
Dieldrin	50.00	32.14	64	23-124	ug/Kg
4,4'-DDE	50.00	31.77	64	28-121	ug/Kg
Endrin	50.00	32.89	66	25-127	ug/Kg
Endosulfan II	50.00	32.45	65	29-121	ug/Kg
Endosulfan sulfate	50.00	31.51	63	30-121	ug/Kg
4,4'-DDD	50.00	29.20	58	26-120	ug/Kg
Endrin aldehyde	50.00	21.32	43	10-120	ug/Kg
Endrin ketone	50.00	30.33	61	28-125	ug/Kg
4,4'-DDT	50.00	33.70	67	22-125	ug/Kg
Methoxychlor	50.00	34.76	70	28-130	ug/Kg
Surrogate			%REC	Limits	
TCMX			60	23-120	
Decachlorobiphenyl			61	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444721		Project#: 211283001				
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord				
Field ID: ZZZZZZZZZZ		Basis: as received		Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000		Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559		Prep: EPA 3546		
Lab ID: QC923378		Sampled: 04/22/21		Analysis: EPA 8081A		
Matrix: Soil		Received: 04/30/21		Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
alpha-BHC	<1.600	50.00	29.92	60	46-120	ug/Kg
beta-BHC	<1.500	50.00	29.08	58	41-120	ug/Kg
gamma-BHC	<2.000	50.00	30.42	61	41-120	ug/Kg
delta-BHC	<1.200	50.00	32.31	65	38-123	ug/Kg
Heptachlor	<1.300	50.00	26.32	53	39-120	ug/Kg
Aldrin	<1.500	50.00	28.21	56	34-120	ug/Kg
Heptachlor epoxide	<2.300	50.00	26.58	53	43-120	ug/Kg
Endosulfan I	<1.200	50.00	28.35	57	45-120	ug/Kg
Dieldrin	<2.100	50.00	28.19	56	45-120	ug/Kg
4,4'-DDE	5.593	50.00	28.74	46	34-120	ug/Kg
Endrin	<2.700	50.00	25.25	51	40-120	ug/Kg
Endosulfan II	<2.800	50.00	28.60	57	41-120	ug/Kg
Endosulfan sulfate	<3.400	50.00	28.02	56	42-120	ug/Kg
4,4'-DDD	<2.100	50.00	25.88	52	41-120	ug/Kg
Endrin aldehyde	<2.100	50.00	21.81	44	30-120	ug/Kg
Endrin ketone	<4.100	50.00	30.40	61	45-120	ug/Kg
4,4'-DDT	<2.000	50.00	30.72	61	35-127	ug/Kg
Methoxychlor	<9.200	50.00	31.27	63	42-136	ug/Kg
Surrogate				%REC	Limits	
TCMX				52	23-120	
Decachlorobiphenyl				52	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: ZZZZZZZZZZ

Basis: as received

Prepared: 05/05/21

Type: MSD

Diln Fac: 1.000

Analyzed: 05/05/21

MSS Lab ID: 444731-001

Batch#: 266559

Prep: EPA 3546

Lab ID: QC923379

Sampled: 04/22/21

Analysis: EPA 8081A

Matrix: Soil

Received: 04/30/21

Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
alpha-BHC	50.00	26.03	52	46-120	ug/Kg	14	30
beta-BHC	50.00	26.06	52	41-120	ug/Kg	11	30
gamma-BHC	50.00	27.07	54	41-120	ug/Kg	12	30
delta-BHC	50.00	28.63	57	38-123	ug/Kg	12	30
Heptachlor	50.00	23.65	47	39-120	ug/Kg	11	30
Aldrin	50.00	25.07	50	34-120	ug/Kg	12	30
Heptachlor epoxide	50.00	23.95	48	43-120	ug/Kg	10	30
Endosulfan I	50.00	25.82	52	45-120	ug/Kg	9	30
Dieldrin	50.00	24.26	49	45-120	ug/Kg	15	30
4,4'-DDE	50.00	26.17	41	34-120	ug/Kg	9	30
Endrin	50.00	18.27	37 *	40-120	ug/Kg	32 *	30
Endosulfan II	50.00	26.12	52	41-120	ug/Kg	9	30
Endosulfan sulfate	50.00	24.97	50	42-120	ug/Kg	11	30
4,4'-DDD	50.00	25.50	51	41-120	ug/Kg	1	30
Endrin aldehyde	50.00	20.61	41	30-120	ug/Kg	6	30
Endrin ketone	50.00	32.75	65	45-120	ug/Kg	7	30
4,4'-DDT	50.00	27.75	56	35-127	ug/Kg	10	30
Methoxychlor	50.00	28.64	57	42-136	ug/Kg	9	30

Surrogate	%REC	Limits
TCMX	48	23-120
Decachlorobiphenyl	48	24-120

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Diln Fac: 1.000	Analyzed: 05/06/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-001	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	230	20	ug/Kg
Surrogate	%REC		Limits
Decachlorobiphenyl (PCB)	55		19-121

Field ID: 5A-SOIL 01	Diln Fac: 1.000	Analyzed: 05/06/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-002	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate	%REC		Limits
Decachlorobiphenyl (PCB)	60		19-121

Polychlorinated Biphenyls (PCBs)

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5B-SOIL 01	DiIn Fac: 1.000	Analyzed: 05/06/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-003	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		58	19-121

Type: BLANK	Batch#: 266559	Analysis: EPA 8082
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
DiIn Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		52	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444721		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Batch#: 266559		Analysis: EPA 8082	
Lab ID: QC923380		Prepared: 05/05/21		Analyst: KTD	
Matrix: Soil		Analyzed: 05/05/21			
Diln Fac: 1.000		Prep: EPA 3546			
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	500.0	336.9	67	14-150	ug/Kg
Aroclor-1260	500.0	339.4	68	10-150	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl (PCB)			59	19-121	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923381	Sampled: 04/22/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Aroclor-1016	<3.000	500.0	294.7	59	42-127	ug/Kg
Aroclor-1260	20.38	500.0	310.9	58	38-130	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	59	19-121

Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MSD	DiIn Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923382	Sampled: 04/22/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	500.0	310.5	62	42-127	ug/Kg	5	30
Aroclor-1260	500.0	329.9	62	38-130	ug/Kg	6	30

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	63	19-121

Legend

RPD: Relative Percent Difference

California Title 22 Metals

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5-SOIL 01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444721-001

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.1	1.0	0.68	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	22	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.51		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.51		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	11	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	1.9	0.51		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	3.3	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	8.1	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	0.26	0.14		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	7.6	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.51		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	8.7	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	25	5.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5A-SOIL 01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444721-002

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.0	0.85	0.57	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	36	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.42		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.42		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	11	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	260	0.42		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	80	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	3.7	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.14		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	30	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	2.5		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.42		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	2.5		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	17	4.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5B-SOIL 01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444721-003

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.3	0.98	0.66	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	19	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	11	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	200	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	52	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	1.2	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	45	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	11	4.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923337

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923338

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.90	99	80-120	mg/Kg
Arsenic	100.0	99.43	99	80-120	mg/Kg
Barium	100.0	98.31	98	80-120	mg/Kg
Beryllium	100.0	94.99	95	80-120	mg/Kg
Cadmium	100.0	95.29	95	80-120	mg/Kg
Chromium	100.0	97.58	98	80-120	mg/Kg
Cobalt	100.0	102.3	102	80-120	mg/Kg
Copper	100.0	95.65	96	80-120	mg/Kg
Lead	100.0	103.7	104	80-120	mg/Kg
Molybdenum	100.0	98.87	99	80-120	mg/Kg
Nickel	100.0	100.8	101	80-120	mg/Kg
Selenium	100.0	86.06	86	80-120	mg/Kg
Silver	50.00	45.81	92	80-120	mg/Kg
Thallium	100.0	99.43	99	80-120	mg/Kg
Vanadium	100.0	101.2	101	80-120	mg/Kg
Zinc	100.0	103.7	104	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923339	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.553	93.46	43.83	47 *	75-125	mg/Kg
Arsenic	2.768	93.46	93.68	97	75-125	mg/Kg
Barium	149.6	93.46	202.2	56 *	75-125	mg/Kg
Beryllium	0.08619	93.46	85.73	92	75-125	mg/Kg
Cadmium	0.4662	93.46	87.59	93	75-125	mg/Kg
Chromium	33.01	93.46	117.3	90	75-125	mg/Kg
Cobalt	4.170	93.46	96.33	99	75-125	mg/Kg
Copper	14.80	93.46	111.0	103	75-125	mg/Kg
Lead	181.3	93.46	210.4	31 *	75-125	mg/Kg
Molybdenum	<0.5728	93.46	87.06	93	75-125	mg/Kg
Nickel	15.37	93.46	103.0	94	75-125	mg/Kg
Selenium	<1.748	93.46	80.28	86	75-125	mg/Kg
Silver	<0.1553	46.73	41.48	89	75-125	mg/Kg
Thallium	<1.068	93.46	88.50	95	75-125	mg/Kg
Vanadium	17.27	93.46	109.5	99	75-125	mg/Kg
Zinc	194.9	93.46	256.6	66 *	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923340	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	46.31	47 *	75-125	mg/Kg	1	41
Arsenic	98.04	101.7	101	75-125	mg/Kg	4	35
Barium	98.04	213.7	65 *	75-125	mg/Kg	4	20
Beryllium	98.04	90.62	92	75-125	mg/Kg	1	20
Cadmium	98.04	95.42	97	75-125	mg/Kg	4	20
Chromium	98.04	126.2	95	75-125	mg/Kg	4	20
Cobalt	98.04	99.09	97	75-125	mg/Kg	2	20
Copper	98.04	108.9	96	75-125	mg/Kg	6	20
Lead	98.04	256.1	76	75-125	mg/Kg	18	20
Molybdenum	98.04	93.64	96	75-125	mg/Kg	2	20
Nickel	98.04	108.9	95	75-125	mg/Kg	1	20
Selenium	98.04	87.23	89	75-125	mg/Kg	4	20
Silver	49.02	44.97	92	75-125	mg/Kg	3	20
Thallium	98.04	95.20	97	75-125	mg/Kg	3	20
Vanadium	98.04	114.9	100	75-125	mg/Kg	1	20
Zinc	98.04	276.1	83	75-125	mg/Kg	6	20

California Title 22 Metals: Batch QC**Lab #:** 444721**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC**Lab #:** 444721**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** BLANK**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923394**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 444721**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923395**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8069	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923396	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	0.2059	0.9615	1.097	93	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923397	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	1.000	1.166	96	75-125	mg/Kg	3	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14	
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A	
Lab ID: 444721-001	Sampled: 04/29/21 08:00	Analysis: EPA 7196A	
Matrix: Soil	Received: 04/30/21	Analyst: ATP	
Basis: as received	Prepared: 05/11/21 11:50		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5A-SOIL 01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14	
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A	
Lab ID: 444721-002	Sampled: 04/29/21 08:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 04/30/21	Analyst: ATP	
Basis: as received	Prepared: 05/11/21 11:50		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5B-SOIL 01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14	
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A	
Lab ID: 444721-003	Sampled: 04/29/21 09:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 04/30/21	Analyst: ATP	
Basis: as received	Prepared: 05/11/21 11:50		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 266848	Analysis: EPA 7196A	
Lab ID: QC924217	Prepared: 05/11/21 11:50	Analyst: ATP	
Matrix: Soil	Analyzed: 05/11/21 16:14		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266848

Analysis: EPA 7196A

Lab ID: QC924218

Prepared: 05/11/21 11:50

Analyst: ATP

Matrix: Soil

Analyzed: 05/11/21 16:14

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.17	105	80-120	mg/Kg

Field ID: 5-SOIL 01

Basis: as received

Prepared: 05/11/21 11:50

Type: MS

Diln Fac: 5.000

Analyzed: 05/11/21 16:14

MSS Lab ID: 444721-001

Batch#: 266848

Prep: EPA 3060A

Lab ID: QC924219

Sampled: 04/29/21 08:00

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	35.59	89	75-125	mg/Kg

Field ID: 5-SOIL 01

Basis: as received

Prepared: 05/11/21 11:50

Type: MSD

Diln Fac: 5.000

Analyzed: 05/11/21 16:14

MSS Lab ID: 444721-001

Batch#: 266848

Prep: EPA 3060A

Lab ID: QC924220

Sampled: 04/29/21 08:00

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	36.27	91	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447836
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447836
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/12/21

Sample ID	Lab ID	Collected	Matrix
3-SOIL-03	447836-001	07/09/21 08:30	Soil
3-SOIL-04	447836-002	07/09/21 09:00	Soil
3-SOIL-05	447836-003	07/09/21 09:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447836
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 07/12/21. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 3-SOIL-03 (lab # 447836-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447836
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

Sample ID: 3-SOIL-03

Lab ID: 447836-001

Collected: 07/09/21 08:30

Matrix: Soil

447836-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.0		mg/Kg	0.95	0.64
Barium	29		mg/Kg	0.95	
Chromium	12		mg/Kg	0.95	
Cobalt	1.8		mg/Kg	0.48	
Copper	3.5		mg/Kg	0.95	
Lead	4.9		mg/Kg	0.95	
Nickel	10		mg/Kg	0.95	
Vanadium	9.9		mg/Kg	0.95	
Zinc	14		mg/Kg	4.8	

Sample ID: 3-SOIL-04

Lab ID: 447836-002

Collected: 07/09/21 09:00

Matrix: Soil

447836-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.0		mg/Kg	0.98	0.66
Barium	33		mg/Kg	0.98	
Chromium	12		mg/Kg	0.98	
Cobalt	2.0		mg/Kg	0.49	
Copper	2.9		mg/Kg	0.98	
Lead	6.1		mg/Kg	0.98	
Nickel	7.9		mg/Kg	0.98	
Vanadium	9.9		mg/Kg	0.98	
Zinc	10		mg/Kg	4.9	
Method: EPA 7196A					
Prep Method: EPA 3060A					
Hexavalent Chromium	6.7		mg/Kg	0.80	0.26

Detection Summary

Sample ID: 3-SOIL-05
Lab ID: 447836-003
Collected: 07/09/21 09:30
Matrix: Soil
447836-003 Analyte

Method: EPA 6010B

Prep Method: EPA 3050B

	Result	Qual	Units	RL	MDL
Arsenic	1.4		mg/Kg	1.0	0.68
Barium	27		mg/Kg	1.0	
Chromium	12		mg/Kg	1.0	
Cobalt	1.8		mg/Kg	0.51	
Copper	3.0		mg/Kg	1.0	
Lead	4.8		mg/Kg	1.0	
Nickel	7.2		mg/Kg	1.0	
Vanadium	10		mg/Kg	1.0	
Zinc	8.7		mg/Kg	5.1	

ENTHALPY ANALYTICAL Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Chain of Custody Record Lab No: <u>447836</u> Page: <u>1</u> of <u>1</u>		Turn Around Time (rush by advanced notice only) Standard: 5 Day: 3 Day: X 2 Day: 1 Day: Custom TAT:			
		Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = (lab use only)					
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request		Test Instructions / Comments	
Company:	Vista Environmental Consulting	Name:	City of Seaside -Former Fort Ord	Hexavalent Chromium Method 7196A CAM 17 Metals Method 6010B/7471A <i>Lead-Strand TGP</i>			
Report To:	Chris Burns/Aleshia Washington	Number:	211283002				
Email:	chrisburns@vista-env.com	P.O. #:					
Address:	2984 Teagarden Street	Address:					
Phone:	San Leandro, Ca 94577	Global ID:					
Fax:	aleshia.washington@vista-env.com	Sampled By:	C. Burns				
Sample ID		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	
1	3-Soil-03	7/9/21	0830	Soil	1	ICE	4PT Composites
2	3-Soil-04	7/9/21	0900	Soil	1	ICE	6"-12" BGS
3	3-Soil-05	7/9/21	0930	Soil	1	ICE	12"-18" BGS
4							18"-24" BGS
5							
6							
7							
8							
9							
10							
Signature		Print Name		Company / Title		Date / Time	
1 Relinquished By:		Chris Burns		Vista		07/09/21 11:30	
1 Received By:		Jonathan Roche		Vista		7/11/21 1326	
2 Relinquished By:		Jonathan Roche		Vista		7/12/21 0223	
2 Received By:		E.A.		E.A.		7/12/21 0223	
3 Relinquished By:		Michael Barker		E.A.		7/12/21 1300	
3 Received By:		Geena Sylvestri		E.A.		7/13/21 10:18	

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 447836
Date Received: 7/12/21

Client: Vista
Project: _____



Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (skip Section 3 below)

If no cooler Sample Temp (°C): 18.1 using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/12/21 By (print) mtc (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

Were custody papers dry, filled out properly, and the project identifiable

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time

Date Logged in 7/12/21

By (print) mtc for zia

(sign) [Signature]

Date Labeled 7/12/21

By (print) mtc

(sign) [Signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
Client: Vista Environmental Consulting Project: City of Seaside - Former Fort Ord
Date Received: 07/13/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2
Sample(s) received in a cooler? ☒ Yes, How many? 1 ☒ No (skip section 2) Sample Temp (°C) _____
(No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: 5.9 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
Shipping Information: _____

Section 3
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____
Cooler Temp (°C): #1: 1.0 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____
☐ Email (email sent to/on): _____ / _____
Project Manager's response: _____

Completed By: Genevieve Sylvester Date: 7/13/21

7/12/2021



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553944184

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

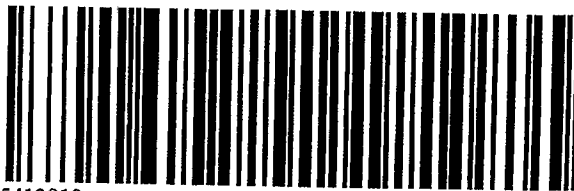
ORANGE

S10003H

COD: \$0.00

Weight: 0 lb(s)

Reference:



45413819

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-EH1

Package 3 of 6

Print Date: 7/12/2021 11:56 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.2/1.0 (3) 10.18

California Title 22 Metals

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447836-001

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.0	0.95	0.64	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	29	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.8	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	3.5	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	4.9	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	10	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.9	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	14	4.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447836-002

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.0	0.98	0.66	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	33	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.49		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.49		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.0	0.49		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.9	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	6.1	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	7.9	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.49		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.9	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	10	4.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-05

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447836-003

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	1.0	0.68	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	27	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.8	0.51		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	3.0	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	4.8	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	7.2	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	10	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.7	5.1		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933971

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933972

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.45	98	80-120	mg/Kg
Arsenic	100.0	95.65	96	80-120	mg/Kg
Barium	100.0	101.3	101	80-120	mg/Kg
Beryllium	100.0	98.30	98	80-120	mg/Kg
Cadmium	100.0	109.0	109	80-120	mg/Kg
Chromium	100.0	98.19	98	80-120	mg/Kg
Cobalt	100.0	105.5	106	80-120	mg/Kg
Copper	100.0	100.6	101	80-120	mg/Kg
Lead	100.0	100.7	101	80-120	mg/Kg
Molybdenum	100.0	92.60	93	80-120	mg/Kg
Nickel	100.0	104.7	105	80-120	mg/Kg
Selenium	100.0	95.83	96	80-120	mg/Kg
Silver	50.00	49.17	98	80-120	mg/Kg
Thallium	100.0	104.8	105	80-120	mg/Kg
Vanadium	100.0	97.91	98	80-120	mg/Kg
Zinc	100.0	114.6	115	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447836	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933973	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.524	93.46	42.85	46 *	75-125	mg/Kg
Arsenic	2.010	93.46	89.56	94	75-125	mg/Kg
Barium	29.29	93.46	121.2	98	75-125	mg/Kg
Beryllium	0.1810	93.46	93.74	100	75-125	mg/Kg
Cadmium	0.1905	93.46	95.79	102	75-125	mg/Kg
Chromium	12.28	93.46	97.01	91	75-125	mg/Kg
Cobalt	1.848	93.46	92.24	97	75-125	mg/Kg
Copper	3.543	93.46	97.48	101	75-125	mg/Kg
Lead	4.943	93.46	95.42	97	75-125	mg/Kg
Molybdenum	<0.5619	93.46	82.22	88	75-125	mg/Kg
Nickel	10.28	93.46	100.8	97	75-125	mg/Kg
Selenium	<1.714	93.46	91.63	98	75-125	mg/Kg
Silver	0.2286	46.73	42.99	92	75-125	mg/Kg
Thallium	<1.048	93.46	93.74	100	75-125	mg/Kg
Vanadium	9.924	93.46	96.82	93	75-125	mg/Kg
Zinc	14.43	93.46	114.9	107	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933974	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	84.03	39.08	47 *	75-125	mg/Kg	1	41
Arsenic	84.03	83.61	97	75-125	mg/Kg	4	35
Barium	84.03	118.5	106	75-125	mg/Kg	6	20
Beryllium	84.03	84.12	100	75-125	mg/Kg	0	20
Cadmium	84.03	90.08	107	75-125	mg/Kg	4	20
Chromium	84.03	93.61	97	75-125	mg/Kg	6	20
Cobalt	84.03	86.81	101	75-125	mg/Kg	4	20
Copper	84.03	88.07	101	75-125	mg/Kg	0	20
Lead	84.03	88.66	100	75-125	mg/Kg	3	20
Molybdenum	84.03	76.61	91	75-125	mg/Kg	4	20
Nickel	84.03	98.40	105	75-125	mg/Kg	7	20
Selenium	84.03	84.12	100	75-125	mg/Kg	2	20
Silver	42.02	40.49	96	75-125	mg/Kg	5	20
Thallium	84.03	86.97	104	75-125	mg/Kg	3	20
Vanadium	84.03	93.11	99	75-125	mg/Kg	6	20
Zinc	84.03	107.6	111	75-125	mg/Kg	3	20

California Title 22 Metals: Batch QC**Lab #:** 447836**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC**Lab #:** 447836**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** BLANK**Batch#:** 270481**Analysis:** EPA 7471A**Lab ID:** QC934081**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447836**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270481**Analysis:** EPA 7471A**Lab ID:** QC934082**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8448	101	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447836	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447836-001	Batch#: 270481	Prep: METHOD
Lab ID: QC934083	Sampled: 07/09/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/12/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04414	0.9804	0.9458	96	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447836-001	Batch#: 270481	Prep: METHOD
Lab ID: QC934084	Sampled: 07/09/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/12/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8475	0.8296	98	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447836		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447836-001	Sampled: 07/09/21 08:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 3-SOIL-04	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447836-002	Sampled: 07/09/21 09:00	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	6.7	0.80	0.26	mg/Kg

Field ID: 3-SOIL-05	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447836-003	Sampled: 07/09/21 09:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 270632	Analysis: EPA 7196A	
Lab ID: QC934467	Prepared: 07/14/21 18:30	Analyst: ATP	
Matrix: Soil	Analyzed: 07/15/21 14:52		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934468

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MS

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934469

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MSD

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934470

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447837
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447837
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/12/21

Sample ID	Lab ID	Collected	Matrix
1-SOIL-03	447837-001	07/09/21 10:00	Soil
1-SOIL-04	447837-002	07/09/21 10:15	Soil
1-SOIL-05	447837-003	07/09/21 10:30	Soil
1-SOIL-06	447837-004	07/09/21 10:45	Soil
1-SOIL-07	447837-005	07/09/21 11:00	Soil
1-SOIL-08	447837-006	07/09/21 11:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447837
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

This data package contains sample and QC results for six soil samples, requested for the above referenced project on 07/12/21. The samples were received intact.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 3-SOIL-03 (lab # 447836-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447837
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

Sample ID: 1-SOIL-03

Lab ID: 447837-001

Collected: 07/09/21 10:00

Matrix: Soil

447837-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.8		mg/Kg	0.94	0.63
Barium	55		mg/Kg	0.94	
Chromium	19		mg/Kg	0.94	
Cobalt	2.4		mg/Kg	0.47	
Copper	6.5		mg/Kg	0.94	
Lead	36		mg/Kg	0.94	
Nickel	12		mg/Kg	0.94	
Vanadium	11		mg/Kg	0.94	
Zinc	73		mg/Kg	4.7	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	2.8		mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-04

Lab ID: 447837-002

Collected: 07/09/21 10:15

Matrix: Soil

447837-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.3		mg/Kg	0.93	0.62
Barium	46		mg/Kg	0.93	
Chromium	17		mg/Kg	0.93	
Cobalt	2.4		mg/Kg	0.46	
Copper	5.6		mg/Kg	0.93	
Lead	44		mg/Kg	0.93	
Nickel	11		mg/Kg	0.93	
Vanadium	11		mg/Kg	0.93	
Zinc	60		mg/Kg	4.6	

Detection Summary

Sample ID: 1-SOIL-05
Lab ID: 447837-003
Collected: 07/09/21 10:30
Matrix: Soil
447837-003 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.5		mg/Kg	0.85	0.57
Barium	26		mg/Kg	0.85	
Chromium	12		mg/Kg	0.85	
Cobalt	1.9		mg/Kg	0.42	
Copper	2.3		mg/Kg	0.85	
Lead	5.3		mg/Kg	0.85	
Nickel	9.2		mg/Kg	0.85	
Vanadium	8.7		mg/Kg	0.85	
Zinc	13		mg/Kg	4.2	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	1.6		mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-06
Lab ID: 447837-004
Collected: 07/09/21 10:45
Matrix: Soil
447837-004 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.5		mg/Kg	0.88	0.59
Barium	18		mg/Kg	0.88	
Chromium	12		mg/Kg	0.88	
Cobalt	1.9		mg/Kg	0.44	
Copper	4.4		mg/Kg	0.88	
Lead	2.4		mg/Kg	0.88	
Nickel	9.0		mg/Kg	0.88	
Vanadium	8.2		mg/Kg	0.88	
Zinc	7.1		mg/Kg	4.4	

Detection Summary

Sample ID: 1-SOIL-07
Lab ID: 447837-005
Collected: 07/09/21 11:00
Matrix: Soil
447837-005 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	0.84	J	mg/Kg	0.95	0.64
Barium	22		mg/Kg	0.95	
Chromium	13		mg/Kg	0.95	
Cobalt	1.9		mg/Kg	0.48	
Copper	2.5		mg/Kg	0.95	
Lead	2.1		mg/Kg	0.95	
Nickel	9.0		mg/Kg	0.95	
Vanadium	8.9		mg/Kg	0.95	
Zinc	7.4		mg/Kg	4.8	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	0.68	J	mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-08
Lab ID: 447837-006
Collected: 07/09/21 11:30
Matrix: Soil
447837-006 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.4		mg/Kg	0.83	0.56
Barium	25		mg/Kg	0.83	
Chromium	12		mg/Kg	0.83	
Cobalt	2.0		mg/Kg	0.42	
Copper	3.0		mg/Kg	0.83	
Lead	4.5		mg/Kg	0.83	
Nickel	8.1		mg/Kg	0.83	
Vanadium	9.6		mg/Kg	0.83	
Zinc	9.3		mg/Kg	4.2	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	1.3		mg/Kg	0.80	0.26
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J Estimated value

Enthalpy ANALYTICAL Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Chain of Custody Record Lab No: <u>147837</u> Page: <u>1</u> of <u>1</u>		Turn Around Time (rush by advanced notice only) Standard: 5 Day: 3 Day: X 2 Day: 1 Day: Custom TAT:			
		Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = (lab use only)					
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request		Test Instructions / Comments	
Company:	Vista Environmental Consulting	Name:	City of Seaside -Former Fort Ord				
Report To:	Chris Burns/Aleshia Washington	Number:	211283002				
Email:	chrisburns@vista-env.com	P.O. #:					
Address:	2984 Teagarden Street	Address:					
	San Leandro, Ca 94577						
Phone:	510-346-8860	Global ID:					
Fax:	aleshia.washington@vista-env.com	Sampled By:	C. Burns				
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.		
1 1-Sol-03	7/9/21	1000	Soil	1	ICE X	4PT Composite	
2 1-Sol-04	7/9/21	1015	Soil	1	ICE X	6"-12" BGS	
3 1-Sol-05	7/9/21	1030	Soil	1	ICE X	12"-18" BGS Building	
4 1-Sol-06	7/9/21	1045	Soil	1	ICE X	18"-24" BGS	
5 1-Sol-07	7/9/21	1100	Soil	1	ICE X	6"-12" BGS	
6 1-Sol-08	7/9/21	1130	Soil	1	ICE X	12"-18" BGS Hardscape	
7						18"-24" BGS	
8						3PT Composite	
9							
10							
Signature		Print Name		Company / Title		Date / Time	
1 Relinquished By:		Chris Burns		Vista		07/09/21 / 11:30	
1 Received By:		Jonathan Beck		Vista		7/11/21 1326	
2 Relinquished By:		Jonathan Beck		Vista		7/12/21 0823	
2 Received By:		Jonathan Beck		Vista		7/12/21 0823	
3 Relinquished By:		Miguel Garcia		Vista		7/12/21 1300	
3 Received By:		Greene Silverthorn		F.A.		7/13/21 10:58	

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 447837
Date Received: 7/12/21

Client: Vista
Project: _____

Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (skip Section 3 below)

If no cooler Sample Temp (°C): 18.1 using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/12/21 By (print) mtc (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

Were custody papers dry, filled out properly, and the project identifiable

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time

Date Logged in 7/12/21

By (print) mtc

(sign) [Signature]

Date Labeled 7/12/21

By (print) mtc

(sign) [Signature]



SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista Environmental Consulting Project: City of Seaside - Former Fort Ord

Date Received: 07/13/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☒ No (skip section 2) Sample Temp (°C) (No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 5.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam

☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.0 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: Deena Sykes Date: 7/13/21

7/12/2021



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553944184

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

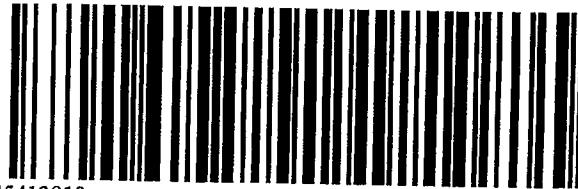
ORANGE

S10003H

COD: \$0.00

Weight: 0 lb(s)

Reference:



45413819

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-EH1

Print Date: 7/12/2021 11:56 AM

Package 3 of 6

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.9/1.0 (3) 10:18

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-001

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.8	0.94	0.63	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	55	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	19	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.4	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	6.5	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	36	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	12	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	73	4.7		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-002

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.3	0.93	0.62	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	46	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	17	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.4	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	5.6	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	44	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	60	4.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-05

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-003

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	0.85	0.57	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	26	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.3	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	5.3	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.2	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.7	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	13	4.2		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-06

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-004

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	0.88	0.59	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	18	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	4.4	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.4	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.2	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.1	4.4		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-07

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-005

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	0.84 J	0.95	0.64	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	22	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.5	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.9	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.4	4.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-08

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-006

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	0.83	0.56	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	25	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.0	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	3.0	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	4.5	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.1	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.6	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.3	4.2		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 270440	Analysis: EPA 6010B
Lab ID: QC933971	Prepared: 07/13/21	Analyst: KLN
Matrix: Soil	Analyzed: 07/15/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933972

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.45	98	80-120	mg/Kg
Arsenic	100.0	95.65	96	80-120	mg/Kg
Barium	100.0	101.3	101	80-120	mg/Kg
Beryllium	100.0	98.30	98	80-120	mg/Kg
Cadmium	100.0	109.0	109	80-120	mg/Kg
Chromium	100.0	98.19	98	80-120	mg/Kg
Cobalt	100.0	105.5	106	80-120	mg/Kg
Copper	100.0	100.6	101	80-120	mg/Kg
Lead	100.0	100.7	101	80-120	mg/Kg
Molybdenum	100.0	92.60	93	80-120	mg/Kg
Nickel	100.0	104.7	105	80-120	mg/Kg
Selenium	100.0	95.83	96	80-120	mg/Kg
Silver	50.00	49.17	98	80-120	mg/Kg
Thallium	100.0	104.8	105	80-120	mg/Kg
Vanadium	100.0	97.91	98	80-120	mg/Kg
Zinc	100.0	114.6	115	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933973	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.524	93.46	42.85	46 *	75-125	mg/Kg
Arsenic	2.010	93.46	89.56	94	75-125	mg/Kg
Barium	29.29	93.46	121.2	98	75-125	mg/Kg
Beryllium	0.1810	93.46	93.74	100	75-125	mg/Kg
Cadmium	0.1905	93.46	95.79	102	75-125	mg/Kg
Chromium	12.28	93.46	97.01	91	75-125	mg/Kg
Cobalt	1.848	93.46	92.24	97	75-125	mg/Kg
Copper	3.543	93.46	97.48	101	75-125	mg/Kg
Lead	4.943	93.46	95.42	97	75-125	mg/Kg
Molybdenum	<0.5619	93.46	82.22	88	75-125	mg/Kg
Nickel	10.28	93.46	100.8	97	75-125	mg/Kg
Selenium	<1.714	93.46	91.63	98	75-125	mg/Kg
Silver	0.2286	46.73	42.99	92	75-125	mg/Kg
Thallium	<1.048	93.46	93.74	100	75-125	mg/Kg
Vanadium	9.924	93.46	96.82	93	75-125	mg/Kg
Zinc	14.43	93.46	114.9	107	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933974	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	84.03	39.08	47 *	75-125	mg/Kg	1	41
Arsenic	84.03	83.61	97	75-125	mg/Kg	4	35
Barium	84.03	118.5	106	75-125	mg/Kg	6	20
Beryllium	84.03	84.12	100	75-125	mg/Kg	0	20
Cadmium	84.03	90.08	107	75-125	mg/Kg	4	20
Chromium	84.03	93.61	97	75-125	mg/Kg	6	20
Cobalt	84.03	86.81	101	75-125	mg/Kg	4	20
Copper	84.03	88.07	101	75-125	mg/Kg	0	20
Lead	84.03	88.66	100	75-125	mg/Kg	3	20
Molybdenum	84.03	76.61	91	75-125	mg/Kg	4	20
Nickel	84.03	98.40	105	75-125	mg/Kg	7	20
Selenium	84.03	84.12	100	75-125	mg/Kg	2	20
Silver	42.02	40.49	96	75-125	mg/Kg	5	20
Thallium	84.03	86.97	104	75-125	mg/Kg	3	20
Vanadium	84.03	93.11	99	75-125	mg/Kg	6	20
Zinc	84.03	107.6	111	75-125	mg/Kg	3	20

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** BLANK**Batch#:** 270482**Analysis:** EPA 7471A**Lab ID:** QC934085**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270482**Analysis:** EPA 7471A**Lab ID:** QC934086**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8107	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447880-001	Batch#: 270482	Prep: METHOD
Lab ID: QC934087	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04414	0.9434	0.9193	97	75-125	mg/Kg

Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447880-001	Batch#: 270482	Prep: METHOD
Lab ID: QC934088	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.9804	0.9748	99	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-03

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-001

Sampled: 07/09/21 10:00

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	2.8	0.80	0.26	mg/Kg

Field ID: 1-SOIL-04

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-002

Sampled: 07/09/21 10:15

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1-SOIL-05

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-003

Sampled: 07/09/21 10:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	1.6	0.80	0.26	mg/Kg

Field ID: 1-SOIL-06

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-004

Sampled: 07/09/21 10:45

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1-SOIL-07

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-005

Sampled: 07/09/21 11:00

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.68 J	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 447837		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL-08	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447837-006	Sampled: 07/09/21 11:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	1.3	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 270632	Analysis: EPA 7196A	
Lab ID: QC934467	Prepared: 07/14/21 18:30	Analyst: ATP	
Matrix: Soil	Analyzed: 07/15/21 14:52		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270632	Analysis: EPA 7196A
Lab ID: QC934468	Prepared: 07/14/21 18:30	Analyst: ATP
Matrix: Soil	Analyzed: 07/15/21 14:52	
Diln Fac: 5.000	Prep: EPA 3060A	

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/14/21 18:30
Type: MS	Diln Fac: 5.000	Analyzed: 07/15/21 14:52
MSS Lab ID: 447836-001	Batch#: 270632	Prep: EPA 3060A
Lab ID: QC934469	Sampled: 07/09/21 08:30	Analysis: EPA 7196A
Matrix: Soil	Received: 07/12/21	Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/14/21 18:30
Type: MSD	Diln Fac: 5.000	Analyzed: 07/15/21 14:52
MSS Lab ID: 447836-001	Batch#: 270632	Prep: EPA 3060A
Lab ID: QC934470	Sampled: 07/09/21 08:30	Analysis: EPA 7196A
Matrix: Soil	Received: 07/12/21	Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447838
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447838
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/12/21

Sample ID	Lab ID	Collected	Matrix
2A-SOIL-02	447838-001	07/09/21 08:30	Soil
2A-SOIL-03	447838-002	07/09/21 09:30	Soil
2A-SOIL-04	447838-003	07/09/21 10:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447838
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 07/12/21. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7471A):

Low responses were observed for molybdenum and antimony in the CCV analyzed 07/15/21 15:55; affected data was qualified with "b". Low recoveries were observed for antimony in the MS/MSD of 3-SOIL-03 (lab # 447836-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447838
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

Sample ID: 2A-SOIL-02

Lab ID: 447838-001

Collected: 07/09/21 08:30

Matrix: Soil

447838-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.2		mg/Kg	0.87	0.58
Barium	18		mg/Kg	0.87	
Chromium	11		mg/Kg	0.87	
Cobalt	1.8		mg/Kg	0.43	
Copper	2.0		mg/Kg	0.87	
Lead	2.1		mg/Kg	0.87	
Nickel	9.4		mg/Kg	0.87	
Vanadium	7.4		mg/Kg	0.87	
Zinc	9.3		mg/Kg	4.3	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	3.1		mg/Kg	0.80	0.26
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Sample ID: 2A-SOIL-03

Lab ID: 447838-002

Collected: 07/09/21 09:30

Matrix: Soil

447838-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	0.84	J	mg/Kg	0.93	0.63
Barium	17		mg/Kg	0.93	
Chromium	10		mg/Kg	0.93	
Cobalt	1.6		mg/Kg	0.47	
Copper	1.7		mg/Kg	0.93	
Lead	2.3		mg/Kg	0.93	
Nickel	9.7		mg/Kg	0.93	
Vanadium	6.9		mg/Kg	0.93	
Zinc	9.6		mg/Kg	4.7	

Detection Summary

Sample ID: 2A-SOIL-04	Lab ID: 447838-003	Collected: 07/09/21 10:30
	Matrix: Soil	

447838-003 Analyte	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.1		mg/Kg	0.99	0.66
Barium	14		mg/Kg	0.99	
Chromium	11		mg/Kg	0.99	
Cobalt	1.5		mg/Kg	0.50	
Copper	1.8		mg/Kg	0.99	
Lead	1.8		mg/Kg	0.99	
Nickel	10		mg/Kg	0.99	
Vanadium	6.4		mg/Kg	0.99	
Zinc	6.6		mg/Kg	5.0	

J Estimated value

ENTHALPY ANALYTICAL		Chain of Custody Record		Lab No: 447038 Page: 1 of 1				Turn Around Time (rush by advanced notice only)							
		Standard: 5 Day: 3 Day: Custom TAT:													
Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900				Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other				Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = (lab use only)							
CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments			
Company: Vista Environmental Consulting				Name: City of Seaside -Former Fort Ord											
Report To: Chris Burns/Aleshia Washington				Number: 211283002											
Email: chrisburns@vista-env.com				P.O. #:											
Address: 2984 Teagarden Street				Address:											
San Leandro, Ca 94577															
Phone: 510-346-8860				Global ID:											
Fax: aleshia.washington@vista-env.com				Sampled By: C. Burns											
Sample ID				Sampling Date		Sampling Time		Matrix		Container No. / Size		Pres.			
1 2A-Sol-02				7/9/21		0830		Soil		1		ICE		3PT composite	
2 2A-Sol-03				7/9/21		0930		Soil		1		ICE		6"-12" BGs	
3 2A-Sol-04				7/9/21		1030		Soil		1		ICE		12"-18" BGs	
4														18"-24" BGs	
5															
6															
7															
8															
9															
10															

Signature		Print Name		Company / Title		Date / Time	
1 Relinquished By:		Chris Burns		Vista		07/09/21 - 1130	
1 Received By:		Jonathan Beck		Vista		7/11/21 1326	
2 Relinquished By:		Jonathan Beck		Vista		7/12/21 0823	
2 Received By:		SA		SA		7/12/21 0822	
3 Relinquished By:		Miguel Candian		EA		7/12/21 1300	
3 Received By:		Geena Silvestri		EA		7/13/21 10:58	

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 447838 Client: Vista
 Date Received: 7/12/21 Project: _____

Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (skip Section 3 below)

If no cooler Sample Temp (°C): 18.1 using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/12/21 By (print) mtc (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?		☒	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?		☒	
Was the client contacted concerning this sample delivery?			
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (If N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____
☐ HCL lot# _____ added to samples _____ on/at _____
☐ HNO3 lot# _____ added to samples _____ on/at _____
☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time

Date Logged in 7/12/21 By (print) mtc (sign) [Signature]

Date Labeled 7/12/21 By (print) mtc (sign) [Signature]



SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: <u>Vista Environmental Consulting</u>	Project: <u>City of Seaside - Former Fort Ord</u>
Date Received: <u>07/13/21</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u> ☒ No (skip section 2) Sample Temp (°C) (No Cooler) : _____	
Sample Temp (°C), One from each cooler: #1: <u>5.9</u> #2: _____ #3: _____ #4: _____	
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)	
Shipping Information: _____	

Section 3	
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: <u>1.0</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6	
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____	
☐ Email (email sent to/on): _____ / _____	
Project Manager's response:	

Completed By: Geneva Sylvester Date: 7/13/21

7/12/2021



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553944184

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

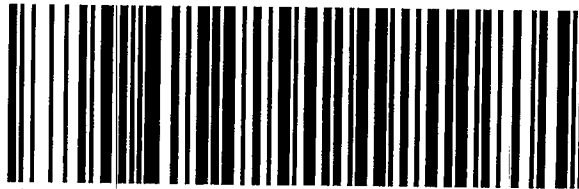
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S10003H



45413819

ORC CA927-EH1

Print Date: 7/12/2021 11:56 AM

Package 3 of 6

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.9/1.0 (3) 10.18

California Title 22 Metals

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2A-SOIL-02

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447838-001

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.2	0.87	0.58	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	18	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.43		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.43		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.8	0.43		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.0	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.4	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.43		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	7.4	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.3	4.3		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2A-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447838-002

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	0.84 J	0.93	0.63	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	17	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	10	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.6	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	1.7	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.3	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.7	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	6.9	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.6	4.7		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2A-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447838-003

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.1	0.99	0.66	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	14	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.50		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.50		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.5	0.50		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	1.8	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	10	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.50		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	6.4	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	6.6	5.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447838	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 270440	Analysis: EPA 6010B
Lab ID: QC933971	Prepared: 07/13/21	Analyst: KLN
Matrix: Soil	Analyzed: 07/15/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447838	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270440	Analysis: EPA 6010B
Lab ID: QC933972	Prepared: 07/13/21	Analyst: KLN
Matrix: Soil	Analyzed: 07/15/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.45	98	80-120	mg/Kg
Arsenic	100.0	95.65	96	80-120	mg/Kg
Barium	100.0	101.3	101	80-120	mg/Kg
Beryllium	100.0	98.30	98	80-120	mg/Kg
Cadmium	100.0	109.0	109	80-120	mg/Kg
Chromium	100.0	98.19	98	80-120	mg/Kg
Cobalt	100.0	105.5	106	80-120	mg/Kg
Copper	100.0	100.6	101	80-120	mg/Kg
Lead	100.0	100.7	101	80-120	mg/Kg
Molybdenum	100.0	92.60	93	80-120	mg/Kg
Nickel	100.0	104.7	105	80-120	mg/Kg
Selenium	100.0	95.83	96	80-120	mg/Kg
Silver	50.00	49.17	98	80-120	mg/Kg
Thallium	100.0	104.8	105	80-120	mg/Kg
Vanadium	100.0	97.91	98	80-120	mg/Kg
Zinc	100.0	114.6	115	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447838	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933973	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.524	93.46	42.85	46 *	75-125	mg/Kg
Arsenic	2.010	93.46	89.56	94	75-125	mg/Kg
Barium	29.29	93.46	121.2	98	75-125	mg/Kg
Beryllium	0.1810	93.46	93.74	100	75-125	mg/Kg
Cadmium	0.1905	93.46	95.79	102	75-125	mg/Kg
Chromium	12.28	93.46	97.01	91	75-125	mg/Kg
Cobalt	1.848	93.46	92.24	97	75-125	mg/Kg
Copper	3.543	93.46	97.48	101	75-125	mg/Kg
Lead	4.943	93.46	95.42	97	75-125	mg/Kg
Molybdenum	<0.5619	93.46	82.22	88	75-125	mg/Kg
Nickel	10.28	93.46	100.8	97	75-125	mg/Kg
Selenium	<1.714	93.46	91.63	98	75-125	mg/Kg
Silver	0.2286	46.73	42.99	92	75-125	mg/Kg
Thallium	<1.048	93.46	93.74	100	75-125	mg/Kg
Vanadium	9.924	93.46	96.82	93	75-125	mg/Kg
Zinc	14.43	93.46	114.9	107	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933974	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	84.03	39.08	47 *	75-125	mg/Kg	1	41
Arsenic	84.03	83.61	97	75-125	mg/Kg	4	35
Barium	84.03	118.5	106	75-125	mg/Kg	6	20
Beryllium	84.03	84.12	100	75-125	mg/Kg	0	20
Cadmium	84.03	90.08	107	75-125	mg/Kg	4	20
Chromium	84.03	93.61	97	75-125	mg/Kg	6	20
Cobalt	84.03	86.81	101	75-125	mg/Kg	4	20
Copper	84.03	88.07	101	75-125	mg/Kg	0	20
Lead	84.03	88.66	100	75-125	mg/Kg	3	20
Molybdenum	84.03	76.61	91	75-125	mg/Kg	4	20
Nickel	84.03	98.40	105	75-125	mg/Kg	7	20
Selenium	84.03	84.12	100	75-125	mg/Kg	2	20
Silver	42.02	40.49	96	75-125	mg/Kg	5	20
Thallium	84.03	86.97	104	75-125	mg/Kg	3	20
Vanadium	84.03	93.11	99	75-125	mg/Kg	6	20
Zinc	84.03	107.6	111	75-125	mg/Kg	3	20

California Title 22 Metals: Batch QC**Lab #:** 447838**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC**Lab #:** 447838**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** BLANK**Batch#:** 270481**Analysis:** EPA 7471A**Lab ID:** QC934081**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447838**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270481**Analysis:** EPA 7471A**Lab ID:** QC934082**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8448	101	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447838	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447836-001	Batch#: 270481	Prep: METHOD
Lab ID: QC934083	Sampled: 07/09/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/12/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04414	0.9804	0.9458	96	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447836-001	Batch#: 270481	Prep: METHOD
Lab ID: QC934084	Sampled: 07/09/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/12/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8475	0.8296	98	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447838		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 2A-SOIL-02	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447838-001	Sampled: 07/09/21 08:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	3.1	0.80	0.26	mg/Kg

Field ID: 2A-SOIL-03	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447838-002	Sampled: 07/09/21 09:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 2A-SOIL-04	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447838-003	Sampled: 07/09/21 10:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 270632	Analysis: EPA 7196A	
Lab ID: QC934467	Prepared: 07/14/21 18:30	Analyst: ATP	
Matrix: Soil	Analyzed: 07/15/21 14:52		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934468

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MS

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934469

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MSD

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934470

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447893
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447893
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/13/21

Sample ID	Lab ID	Collected	Matrix
5A-SOIL-02	447893-001	07/12/21 09:15	Soil
5A-SOIL-03	447893-002	07/12/21 09:30	Soil
5A-SOIL-04	447893-003	07/12/21 09:45	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447893
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/13/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 07/13/21. The samples were received on ice and intact, directly from the field.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 5A-SOIL-02 (lab # 447893-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447893
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/13/21

Sample ID: 5A-SOIL-02

Lab ID: 447893-001

Collected: 07/12/21 09:15

Matrix: Soil

447893-001 Analyte

Method: EPA 6010B
Prep Method: EPA 3050B

	Result	Qual	Units	RL	MDL
Arsenic	1.2		mg/Kg	0.92	0.61
Barium	21		mg/Kg	0.92	
Chromium	12		mg/Kg	0.92	
Cobalt	1.9		mg/Kg	0.46	
Copper	1.7		mg/Kg	0.92	
Lead	2.0		mg/Kg	0.92	
Nickel	7.3		mg/Kg	0.92	
Vanadium	9.9		mg/Kg	0.92	
Zinc	7.0		mg/Kg	4.6	

Sample ID: 5A-SOIL-03

Lab ID: 447893-002

Collected: 07/12/21 09:30

Matrix: Soil

447893-002 Analyte

Method: EPA 6010B
Prep Method: EPA 3050B

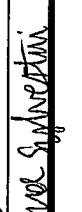
	Result	Qual	Units	RL	MDL
Arsenic	1.8		mg/Kg	0.97	0.65
Barium	30		mg/Kg	0.97	
Chromium	15		mg/Kg	0.97	
Cobalt	3.3		mg/Kg	0.49	
Copper	2.0		mg/Kg	0.97	
Lead	2.1		mg/Kg	0.97	
Nickel	11		mg/Kg	0.97	
Vanadium	13		mg/Kg	0.97	
Zinc	7.6		mg/Kg	4.9	

Detection Summary

Sample ID: 5A-SOIL-04	Lab ID: 447893-003	Collected: 07/12/21 09:45
	Matrix: Soil	

447893-003 Analyte	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.1		mg/Kg	0.98	0.66
Barium	21		mg/Kg	0.98	
Chromium	11		mg/Kg	0.98	
Cobalt	1.9		mg/Kg	0.49	
Copper	1.5		mg/Kg	0.98	
Lead	1.7		mg/Kg	0.98	
Nickel	7.4		mg/Kg	0.98	
Vanadium	10		mg/Kg	0.98	
Zinc	5.7		mg/Kg	4.9	
Method: EPA 7196A					
Prep Method: EPA 3060A					
Hexavalent Chromium	2.6		mg/Kg	0.80	0.26

 ENTHALPY ANALYTICAL		Chain of Custody Record Lab No: <u>447893</u> Page: <u>1</u> of <u>1</u>		Turn Around Time (rush by advanced notice only) Standard: <u> </u> 5 Day: <u> </u> 3 Day: <u> </u> X 2 Day: <u> </u> 1 Day: <u> </u> Custom TAT: <u> </u>											
Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = <u> </u> (lab use only)													
CUSTOMER INFORMATION Company: Vista Environmental Consulting Report To: Chris Burns/Aleshia Washington Email: chrisburns@vista-env.com Address: 2984 Teagarden Street San Leandro, Ca 94577 Phone: 510-346-8860 Fax: aleshia.washington@vista-env.com		PROJECT INFORMATION Name: <u> </u> City of Seaside -Former Fort Ord Number: <u>211283002</u> P.O. #: <u> </u> Address: <u> </u> Global ID: <u> </u> Sampled By: <u>C. Burns</u>		Analysis Request Hexavalent Chromium Method 7196A CAM 17 Metals Method 6010B/7471A Lead, Cd, Cu, and Tl											
Test Instructions / Comments		3 pt Composite 6"-12" BGS 12"-18" BGS 18"-24" BGS													
1	5A-Soil-02	7/12/21	0915	Soil	1	ICE	X								
2	5A-Soil-03	7/12/21	0930	Soil	1	ICE	X								
3	5A-Soil-04	7/12/21	0945	Soil	1	ICE	X								
4															
5															
6															
7															
8															
9															
10															

1 Relinquished By:		Signature	Print Name	Chris Burns	Company / Title	Vista	Date / Time	7/13/21, 0915
1 Received By:			JAVIER ROCHA		VISTA		7/13/21, 1000	
2 Relinquished By:			JAVIER ROCHA		VISTA		7/13/21, 1153	
2 Received By:			DAPHNA BRAGGMAN		ENVIRONMENTAL		7/13/21, 1153	
3 Relinquished By:			Jacob Kohn		Environmental		7-13-21 1450	
3 Received By:			Gerard Sylvester		E.A/O		7/14/21 10:49	

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 447893

 Client: Vista

 Date Received: 7/13/21

Project: _____

Section 2: Shipping info (if applicable)

 Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

 Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

 Samples received in a cooler? ☐ Yes, how many? _____ ☐ No (skip Section 3 below)

 If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☒ Samples received on ice directly from the field. Cooling process had begun

 If in cooler: Date Opened 7/13/21 By (print) MAG (sign) [Signature]
Section 3:
Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☒ Samples received on ice directly from the field. Cooling process had begun

 Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

 Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

Were custody papers dry, filled out properly, and the project identifiable

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

 Explanations/Comments: Sample labels do not have date/time.

 Date Logged in 7/13/21

 By (print) MAG for ZLT (sign) [Signature]

 Date Labeled 7/13/21

 By (print) MAG (sign) [Signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista Environmental Consulting

Project: City of Seaside- Former Fort Ord

Date Received: 07/14/21

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C)
(No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 4.8 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☒ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.4 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: Deena Sylvester Date: 7/14/21

7/13/2021



800-322-5555
www.gls-us.com

Ship From
ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553962608

CPS

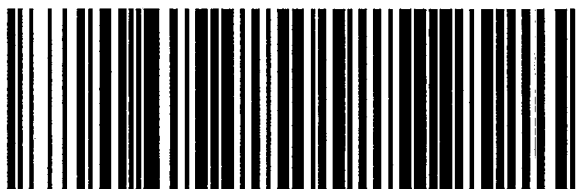


Ship To
ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00
Weight: 0 lb(s)
Reference:

S10003H



45498474

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-EH1

Print Date: 7/13/2021 1:02 PM

Package 1 of 4

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

① 010:49

4.8/2.4

California Title 22 Metals

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5A-SOIL-02

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447893-001

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.2	0.92	0.61	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	21	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.46		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.46		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.46		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	1.7	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	2.0	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	7.3	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.46		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.9	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.0	4.6		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5A-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447893-002

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.8	0.97	0.65	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	30	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	15	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	3.3	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	2.0	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	13	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.6	4.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5A-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447893-003

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.1	0.98	0.66	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	21	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	1.5	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	1.7	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	7.4	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	10	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	5.7	4.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447893	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 270550	Analysis: EPA 6010B
Lab ID: QC934254	Prepared: 07/14/21	Analyst: KLN
Matrix: Soil	Analyzed: 07/16/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270550

Analysis: EPA 6010B

Lab ID: QC934255

Prepared: 07/14/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/16/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	105.1	105	80-120	mg/Kg
Arsenic	100.0	102.2	102	80-120	mg/Kg
Barium	100.0	104.8	105	80-120	mg/Kg
Beryllium	100.0	101.4	101	80-120	mg/Kg
Cadmium	100.0	102.3	102	80-120	mg/Kg
Chromium	100.0	102.5	102	80-120	mg/Kg
Cobalt	100.0	106.1	106	80-120	mg/Kg
Copper	100.0	99.39	99	80-120	mg/Kg
Lead	100.0	106.1	106	80-120	mg/Kg
Molybdenum	100.0	106.0	106	80-120	mg/Kg
Nickel	100.0	105.4	105	80-120	mg/Kg
Selenium	100.0	88.14	88	80-120	mg/Kg
Silver	50.00	50.35	101	80-120	mg/Kg
Thallium	100.0	109.2	109	80-120	mg/Kg
Vanadium	100.0	102.5	103	80-120	mg/Kg
Zinc	100.0	102.7	103	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447893	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/16/21
MSS Lab ID: 447893-001	Batch#: 270550	Prep: EPA 3050B
Lab ID: QC934256	Sampled: 07/12/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/13/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.468	100.0	68.42	68 *	75-125	mg/Kg
Arsenic	1.222	100.0	108.8	108	75-125	mg/Kg
Barium	20.71	100.0	134.0	113	75-125	mg/Kg
Beryllium	0.08975	100.0	105.2	105	75-125	mg/Kg
Cadmium	<0.08624	100.0	105.5	105	75-125	mg/Kg
Chromium	12.43	100.0	119.0	107	75-125	mg/Kg
Cobalt	1.934	100.0	110.5	109	75-125	mg/Kg
Copper	1.701	100.0	107.4	106	75-125	mg/Kg
Lead	2.011	100.0	109.7	108	75-125	mg/Kg
Molybdenum	<0.5413	100.0	107.1	107	75-125	mg/Kg
Nickel	7.331	100.0	117.7	110	75-125	mg/Kg
Selenium	<1.651	100.0	92.16	92	75-125	mg/Kg
Silver	<0.1468	50.00	51.25	102	75-125	mg/Kg
Thallium	<1.009	100.0	112.1	112	75-125	mg/Kg
Vanadium	9.920	100.0	118.4	109	75-125	mg/Kg
Zinc	6.967	100.0	113.3	106	75-125	mg/Kg

Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/16/21
MSS Lab ID: 447893-001	Batch#: 270550	Prep: EPA 3050B
Lab ID: QC934257	Sampled: 07/12/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/13/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	59.97	61 *	75-125	mg/Kg	11	41
Arsenic	98.04	105.8	107	75-125	mg/Kg	1	35
Barium	98.04	132.2	114	75-125	mg/Kg	0	20
Beryllium	98.04	104.4	106	75-125	mg/Kg	1	20
Cadmium	98.04	103.0	105	75-125	mg/Kg	0	20
Chromium	98.04	116.2	106	75-125	mg/Kg	1	20
Cobalt	98.04	108.5	109	75-125	mg/Kg	0	20
Copper	98.04	105.0	105	75-125	mg/Kg	0	20
Lead	98.04	107.5	108	75-125	mg/Kg	0	20
Molybdenum	98.04	104.0	106	75-125	mg/Kg	1	20
Nickel	98.04	115.7	111	75-125	mg/Kg	0	20
Selenium	98.04	89.71	92	75-125	mg/Kg	1	20
Silver	49.02	50.19	102	75-125	mg/Kg	0	20
Thallium	98.04	109.5	112	75-125	mg/Kg	0	20
Vanadium	98.04	116.3	109	75-125	mg/Kg	0	20
Zinc	98.04	111.2	106	75-125	mg/Kg	0	20

California Title 22 Metals: Batch QC**Lab #:** 447893**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 447893		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK		Batch#: 270618	Analysis: EPA 7471A
Lab ID: QC934410		Prepared: 07/14/21	Analyst: TNN
Matrix: Soil		Analyzed: 07/15/21	
Diln Fac: 1.000		Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447893**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270618**Analysis:** EPA 7471A**Lab ID:** QC934411**Prepared:** 07/14/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/15/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8430	101	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447893	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447893-001	Batch#: 270618	Prep: METHOD
Lab ID: QC934412	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04587	0.9804	0.9868	101	75-125	mg/Kg

Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447893-001	Batch#: 270618	Prep: METHOD
Lab ID: QC934413	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8475	0.8233	97	75-125	mg/Kg	4	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447893		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL-02	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447893-001	Sampled: 07/12/21 09:15	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/13/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5A-SOIL-03	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447893-002	Sampled: 07/12/21 09:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/13/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5A-SOIL-04	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447893-003	Sampled: 07/12/21 09:45	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/13/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	2.6	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 270632	Analysis: EPA 7196A	
Lab ID: QC934467	Prepared: 07/14/21 18:30	Analyst: ATP	
Matrix: Soil	Analyzed: 07/15/21 14:52		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934468

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MS

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934469

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MSD

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934470

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447894
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447894
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/13/21

Sample ID	Lab ID	Collected	Matrix
5B-SOIL-02	447894-001	07/12/21 08:10	Soil
5B-SOIL-03	447894-002	07/12/21 08:20	Soil
5B-SOIL-04	447894-003	07/12/21 08:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447894
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/13/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 07/13/21. The samples were received on ice and intact, directly from the field.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 5A-SOIL-02 (lab # 447893-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447894
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/13/21

Sample ID: 5B-SOIL-02

Lab ID: 447894-001

Collected: 07/12/21 08:10

Matrix: Soil

447894-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.7		mg/Kg	0.91	0.61
Barium	22		mg/Kg	0.91	
Chromium	12		mg/Kg	0.91	
Cobalt	2.0		mg/Kg	0.45	
Copper	1.8		mg/Kg	0.91	
Lead	1.8		mg/Kg	0.91	
Nickel	12		mg/Kg	0.91	
Vanadium	9.0		mg/Kg	0.91	
Zinc	9.9		mg/Kg	4.5	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	0.75	J	mg/Kg	0.80	0.26
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Sample ID: 5B-SOIL-03

Lab ID: 447894-002

Collected: 07/12/21 08:20

Matrix: Soil

447894-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.0		mg/Kg	0.91	0.61
Barium	28		mg/Kg	0.91	
Chromium	14		mg/Kg	0.91	
Cobalt	2.2		mg/Kg	0.45	
Copper	2.2		mg/Kg	0.91	
Lead	2.2		mg/Kg	0.91	
Nickel	13		mg/Kg	0.91	
Vanadium	11		mg/Kg	0.91	
Zinc	9.0		mg/Kg	4.5	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	0.40	J	mg/Kg	0.80	0.26
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Detection Summary

Sample ID: 5B-SOIL-04
Lab ID: 447894-003
Collected: 07/12/21 08:30
Matrix: Soil
447894-003 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.7		mg/Kg	1.0	0.68
Barium	24		mg/Kg	1.0	
Chromium	13		mg/Kg	1.0	
Cobalt	1.7		mg/Kg	0.51	
Copper	1.9		mg/Kg	1.0	
Lead	1.5		mg/Kg	1.0	
Nickel	11		mg/Kg	1.0	
Vanadium	8.0		mg/Kg	1.0	
Zinc	8.3		mg/Kg	5.1	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	0.60	J	mg/Kg	0.80	0.26
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J Estimated value

ENTHALPY ANALYTICAL

Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710

Phone 510-486-0900

Chain of Custody Record

Lab No: 447894

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard: 5 Day: 3 Day: X
2 Day: 1 Day: Custom TAT:

Matrix: A = Air S = Soil/Solid
= Water DW = Drinking Water SD = Sediment
PP = Pure Product SEA = Sea Water
SW = Swab T = Tissue WP = Wipe O = Other (lab use only)

Preservatives:
1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
4 = H₂SO₄ 5 = NaOH 6 =

Sample Receipt Temp:

PROJECT INFORMATION

Company:	Vista Environmental Consulting	Name:	City of Seaside - Former Fort Ord
Report To:	Chris Burns/Aleshia Washington	Number:	211283002
Email:	chrisburns@vista-env.com	P.O. #:	
Address:	2984 Teagarden Street	Address:	
	San Leandro, Ca 94577		
Phone:	510-346-8860	Global ID:	
Fax:	aleshia.washington@vista-env.com	Sampled By:	C. Burns

Analysis Request

CAM 17 Metals Method 60108/7471A	Hexavalent Chromium Method 7196A	Lead SILC and TCLP
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Test Instructions / Comments

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Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
1 SB-Soil-02	7/12/21	0810	Soil	1	ICE X
2 SB-Soil-03	7/12/21	0820	Soil	1	ICE X
3 SB-Soil-04	7/12/21	0830	Soil	1	ICE X
4					
5					
6					
7					
8					
9					
10					

3-PT Composite
0" - 12" BGS
12" - 18" BGS
18" - 24" BGS

Signature	Print Name	Company / Title	Date / Time
	Chris Burns	Vista	7/13/21, 0915
	JAVIER ROCHA	VISTA	7/13/21, 1000
	JAVIER ROCHA	VISTA	7/13/21, 1153
	JORDAN BANGHMAN	ENTHALPY	7/13/21, 1153
	Jacob Holm	ENTHALPY	7-13-21 1449
	Erika Silvestri	E.A.O	7/14/21 10:49

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 447894

Client: Vista



Date Received: 7/13/21

Project: _____

Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☒ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/13/21 By (print) MAG (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☒ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒	☐	☐
Were Method 5035 sampling containers present?	☒	☐	☐
If YES, what time were they transferred to freezer? _____	☒	☐	☐
Did all bottles arrive unbroken/unopened?	☒	☐	☐
Are there any missing / extra samples?	☐	☒	☐
Are samples in the appropriate containers for indicated tests?	☒	☐	☐
Are sample labels present, in good condition and complete?	☒	☐	☐
Does the container count match the COC?	☒	☐	☐
Do the sample labels agree with custody papers?	☒	☐	☐
Was sufficient amount of sample sent for tests requested?	☒	☐	☐
Did you change the hold time in LIMS for unpreserved VOAs?	☐	☐	☒
Did you change the hold time in LIMS for preserved terracores?	☐	☐	☒
Are bubbles > 6mm present in VOA samples?	☐	☒	☐
Was the client contacted concerning this sample delivery?	☐	☒	☐
If YES, who was called? _____ By _____ Date: _____	☒	☐	☐

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)	☐	☐	☐
Did you check preservatives for all bottles for each sample?	☐	☐	☒
Did you document your preservative check?	☐	☐	☒
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
☐ H2SO4 lot# _____ added to samples _____ on/at _____			
☐ HCL lot# _____ added to samples _____ on/at _____			
☐ HNO3 lot# _____ added to samples _____ on/at _____			
☐ NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: Sample labels do not have date/time.

Date Logged in 7/13/21

By (print) MAG Per 211 (sign) [Signature]

Date Labeled 7/13/21

By (print) MAG (sign) [Signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Vista Environmental Consulting Project: City of Seaside- Former Fort Ord
 Date Received: 07/14/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2
 Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) _____
 (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 4.8 #2: _____ #3: _____ #4: _____
 (Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: ☒ Ice ☐ Ice Packs ☒ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____
 Cooler Temp (°C): #1: 2.4 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____
☐ Email (email sent to/on): _____ / _____
 Project Manager's response: _____

Completed By: Aleana Sylvestre Date: 7/14/21

7/13/2021



800-322-5555
www.gls-us.com

Ship From
ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553962608

CPS

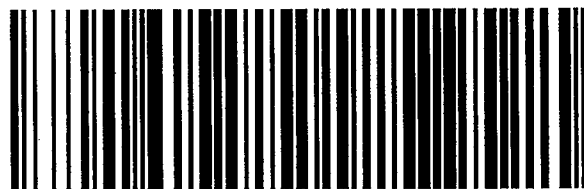


Ship To
ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

S10003H

COD: \$0.00
Weight: 0 lb(s)
Reference:



Delivery Instructions:

Signature Type: STANDARD

45498474

ORC CA927-EH1

Print Date: 7/13/2021 1:02 PM

Package 1 of 4

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

① 010:49

4.8/2.4

California Title 22 Metals

Lab #: 447894			Project#: 211283002						
Client: Vista Environmental			Location: City of Seaside - Former Fort Ord						
Field ID: 5B-SOIL-02			Matrix: Soil		Diln Fac: 1.000		Received: 07/13/21		
Lab ID: 447894-001			Basis: as received		Sampled: 07/12/21		Prepared: 07/14/21		
Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	0.91	0.61	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	22	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.0	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	1.8	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	12	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.0	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.9	4.5		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5B-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447894-002

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.0	0.91	0.61	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	28	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	2.2	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	2.2	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	13	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.0	4.5		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5B-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447894-003

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	1.0	0.68	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	24	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.7	0.51		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	1.9	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	1.5	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.0	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.3	5.1		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 270550

Analysis: EPA 6010B

Lab ID: QC934254

Prepared: 07/14/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/16/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447894	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270550	Analysis: EPA 6010B
Lab ID: QC934255	Prepared: 07/14/21	Analyst: KLN
Matrix: Soil	Analyzed: 07/16/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	105.1	105	80-120	mg/Kg
Arsenic	100.0	102.2	102	80-120	mg/Kg
Barium	100.0	104.8	105	80-120	mg/Kg
Beryllium	100.0	101.4	101	80-120	mg/Kg
Cadmium	100.0	102.3	102	80-120	mg/Kg
Chromium	100.0	102.5	102	80-120	mg/Kg
Cobalt	100.0	106.1	106	80-120	mg/Kg
Copper	100.0	99.39	99	80-120	mg/Kg
Lead	100.0	106.1	106	80-120	mg/Kg
Molybdenum	100.0	106.0	106	80-120	mg/Kg
Nickel	100.0	105.4	105	80-120	mg/Kg
Selenium	100.0	88.14	88	80-120	mg/Kg
Silver	50.00	50.35	101	80-120	mg/Kg
Thallium	100.0	109.2	109	80-120	mg/Kg
Vanadium	100.0	102.5	103	80-120	mg/Kg
Zinc	100.0	102.7	103	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447894	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/16/21
MSS Lab ID: 447893-001	Batch#: 270550	Prep: EPA 3050B
Lab ID: QC934256	Sampled: 07/12/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/13/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.468	100.0	68.42	68 *	75-125	mg/Kg
Arsenic	1.222	100.0	108.8	108	75-125	mg/Kg
Barium	20.71	100.0	134.0	113	75-125	mg/Kg
Beryllium	0.08975	100.0	105.2	105	75-125	mg/Kg
Cadmium	<0.08624	100.0	105.5	105	75-125	mg/Kg
Chromium	12.43	100.0	119.0	107	75-125	mg/Kg
Cobalt	1.934	100.0	110.5	109	75-125	mg/Kg
Copper	1.701	100.0	107.4	106	75-125	mg/Kg
Lead	2.011	100.0	109.7	108	75-125	mg/Kg
Molybdenum	<0.5413	100.0	107.1	107	75-125	mg/Kg
Nickel	7.331	100.0	117.7	110	75-125	mg/Kg
Selenium	<1.651	100.0	92.16	92	75-125	mg/Kg
Silver	<0.1468	50.00	51.25	102	75-125	mg/Kg
Thallium	<1.009	100.0	112.1	112	75-125	mg/Kg
Vanadium	9.920	100.0	118.4	109	75-125	mg/Kg
Zinc	6.967	100.0	113.3	106	75-125	mg/Kg

Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/16/21
MSS Lab ID: 447893-001	Batch#: 270550	Prep: EPA 3050B
Lab ID: QC934257	Sampled: 07/12/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/13/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	59.97	61 *	75-125	mg/Kg	11	41
Arsenic	98.04	105.8	107	75-125	mg/Kg	1	35
Barium	98.04	132.2	114	75-125	mg/Kg	0	20
Beryllium	98.04	104.4	106	75-125	mg/Kg	1	20
Cadmium	98.04	103.0	105	75-125	mg/Kg	0	20
Chromium	98.04	116.2	106	75-125	mg/Kg	1	20
Cobalt	98.04	108.5	109	75-125	mg/Kg	0	20
Copper	98.04	105.0	105	75-125	mg/Kg	0	20
Lead	98.04	107.5	108	75-125	mg/Kg	0	20
Molybdenum	98.04	104.0	106	75-125	mg/Kg	1	20
Nickel	98.04	115.7	111	75-125	mg/Kg	0	20
Selenium	98.04	89.71	92	75-125	mg/Kg	1	20
Silver	49.02	50.19	102	75-125	mg/Kg	0	20
Thallium	98.04	109.5	112	75-125	mg/Kg	0	20
Vanadium	98.04	116.3	109	75-125	mg/Kg	0	20
Zinc	98.04	111.2	106	75-125	mg/Kg	0	20

California Title 22 Metals: Batch QC**Lab #:** 447894**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 447894		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK		Batch#: 270618	Analysis: EPA 7471A
Lab ID: QC934410		Prepared: 07/14/21	Analyst: TNN
Matrix: Soil		Analyzed: 07/15/21	
Diln Fac: 1.000		Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447894**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270618**Analysis:** EPA 7471A**Lab ID:** QC934411**Prepared:** 07/14/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/15/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8430	101	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447894	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447893-001	Batch#: 270618	Prep: METHOD
Lab ID: QC934412	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04587	0.9804	0.9868	101	75-125	mg/Kg

Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447893-001	Batch#: 270618	Prep: METHOD
Lab ID: QC934413	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8475	0.8233	97	75-125	mg/Kg	4	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5B-SOIL-02

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447894-001

Sampled: 07/12/21 08:10

Analysis: EPA 7196A

Matrix: Soil

Received: 07/13/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.75 J	0.80	0.26	mg/Kg

Field ID: 5B-SOIL-03

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447894-002

Sampled: 07/12/21 08:20

Analysis: EPA 7196A

Matrix: Soil

Received: 07/13/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.40 J	0.80	0.26	mg/Kg

Field ID: 5B-SOIL-04

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447894-003

Sampled: 07/12/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/13/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.60 J	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934467

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447894	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270632	Analysis: EPA 7196A
Lab ID: QC934468	Prepared: 07/14/21 18:30	Analyst: ATP
Matrix: Soil	Analyzed: 07/15/21 14:52	
Diln Fac: 5.000	Prep: EPA 3060A	

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/14/21 18:30
Type: MS	Diln Fac: 5.000	Analyzed: 07/15/21 14:52
MSS Lab ID: 447836-001	Batch#: 270632	Prep: EPA 3060A
Lab ID: QC934469	Sampled: 07/09/21 08:30	Analysis: EPA 7196A
Matrix: Soil	Received: 07/12/21	Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/14/21 18:30
Type: MSD	Diln Fac: 5.000	Analyzed: 07/15/21 14:52
MSS Lab ID: 447836-001	Batch#: 270632	Prep: EPA 3060A
Lab ID: QC934470	Sampled: 07/09/21 08:30	Analysis: EPA 7196A
Matrix: Soil	Received: 07/12/21	Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447578
Report Level: II
Report Date: 07/14/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447578
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
1-SOIL 01	447578-001	04/29/21 12:00	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447578
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 07/06/21.

Metals (EPA 6010B) TCLP Leachate:

No analytical problems were encountered.

Metals (EPA 6010B) WET Leachate:

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447578
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

Sample ID: 1-SOIL 01

Lab ID: 447578-001

Collected: 04/29/21 12:00

447578-001 Analyte

Method: EPA 6010B
Prep Method: EPA 3010A

	Result	Qual	Units	RL	Matrix
Lead	0.12		mg/L	0.015	TCLP Leachate

Method: EPA 6010B
Prep Method: WET

Lead	5.2		mg/L	0.15	WET Leachate
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[EXTERNAL] Re: 211283001 - Enthalpy Data (444715)

Chris Burns <chrisburns@vista-env.com>
To: john.goyette@enthalpy.com

Tue, Jul 6, 2021 at 7:53 AM

John,

Do you still have this sample at the lab? If so, please run a TCLP and STLC for lead with a standard TAT. If not we will grab another sample when we are down there this week.

Thanks,

Christopher Burns



2984 Teagarden Street
San Leandro, CA 94577

Cell: (925)348-5361

From: John Goyette <john.goyette@enthalpy.com>
To: <chrisburns@vista-env.com>
Sent: 5/11/2021 5:13 PM
Subject: 211283001 - Enthalpy Data (444715)

Hi Chris,

Please find attached the following files:

- PDF Deliverable
- Standard Format EDD ([444715_standard.zip](#))

Email was also sent to: aleshia.washington@vista-env.com

Lead

Lab #: 447578	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Batch#: 270149	Prep: EPA 3010A
Type: SAMPLE	Sampled: 04/29/21	Analysis: EPA 6010B
Lab ID: 447578-001	Received: 04/30/21	Analyst: JCP
Matrix: TCLP Leachate	Prepared: 07/08/21	
Diln Fac: 1.000	Analyzed: 07/12/21	

Analyte	Result	RL	Units
Lead	0.12	0.015	mg/L

Type: BLANK	Batch#: 270149	Analysis: EPA 6010B
Lab ID: QC933145	Prepared: 07/08/21	Analyst: JCP
Matrix: TCLP Leachate	Analyzed: 07/12/21	
Diln Fac: 1.000	Prep: EPA 3010A	

Analyte	Result	RL	Units
Lead	ND	0.015	mg/L

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 447578	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270149	Analysis: EPA 6010B
Lab ID: QC933146	Prepared: 07/08/21	Analyst: JCP
Matrix: TCLP Leachate	Analyzed: 07/12/21	
Diln Fac: 1.000	Prep: EPA 3010A	

Analyte	Spiked	Result	%REC	Limits	Units
Lead	2.000	2.086	104	80-120	mg/L

Field ID: ZZZZZZZZZZ	Diln Fac: 1.000	Analyzed: 07/12/21
Type: MS	Batch#: 270149	Prep: EPA 3010A
MSS Lab ID: 447507-001	Sampled: 07/01/21	Analysis: EPA 6010B
Lab ID: QC933147	Received: 07/01/21	Analyst: JCP
Matrix: TCLP Leachate	Prepared: 07/08/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Lead	0.004763	2.000	2.076	104	75-125	mg/L

Field ID: ZZZZZZZZZZ	Diln Fac: 1.000	Analyzed: 07/12/21
Type: MSD	Batch#: 270149	Prep: EPA 3010A
MSS Lab ID: 447507-001	Sampled: 07/01/21	Analysis: EPA 6010B
Lab ID: QC933148	Received: 07/01/21	Analyst: JCP
Matrix: TCLP Leachate	Prepared: 07/08/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	2.000	2.099	105	75-125	mg/L	1	20

Legend

RPD: Relative Percent Difference

Lead

Lab #: 447578	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Batch#: 270245	Prep: WET
Type: SAMPLE	Sampled: 04/29/21	Analysis: EPA 6010B
Lab ID: 447578-001	Received: 04/30/21	Analyst: KLN
Matrix: WET Leachate	Prepared: 07/09/21	
Diln Fac: 1.000	Analyzed: 07/13/21	

Analyte	Result	RL	Units
Lead	5.2	0.15	mg/L

Type: BLANK	Batch#: 270245	Analysis: EPA 6010B
Lab ID: QC933396	Prepared: 07/09/21	Analyst: KLN
Matrix: WET Leachate	Analyzed: 07/13/21	
Diln Fac: 1.000	Prep: WET	

Analyte	Result	RL	Units
Lead	ND	0.15	mg/L

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 447578		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BS	Batch#: 270245	Analysis: EPA 6010B	
Lab ID: QC933397	Prepared: 07/09/21	Analyst: KLN	
Matrix: WET Leachate	Analyzed: 07/13/21		
Diln Fac: 1.000	Prep: WET		

Analyte	Spiked	Result	%REC	Limits	Units
Lead	5.000	5.556	111	80-120	mg/L

Type: BSD	Batch#: 270245	Analysis: EPA 6010B	
Lab ID: QC933398	Prepared: 07/09/21	Analyst: KLN	
Matrix: WET Leachate	Analyzed: 07/13/21		
Diln Fac: 1.000	Prep: WET		

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	5.000	5.520	110	80-120	mg/L	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447837
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447837
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/12/21

Sample ID	Lab ID	Collected	Matrix
1-SOIL-03	447837-001	07/09/21 10:00	Soil
1-SOIL-04	447837-002	07/09/21 10:15	Soil
1-SOIL-05	447837-003	07/09/21 10:30	Soil
1-SOIL-06	447837-004	07/09/21 10:45	Soil
1-SOIL-07	447837-005	07/09/21 11:00	Soil
1-SOIL-08	447837-006	07/09/21 11:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447837
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

This data package contains sample and QC results for six soil samples, requested for the above referenced project on 07/12/21. The samples were received intact.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 3-SOIL-03 (lab # 447836-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447837
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

Sample ID: 1-SOIL-03

Lab ID: 447837-001

Collected: 07/09/21 10:00

Matrix: Soil

447837-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.8		mg/Kg	0.94	0.63
Barium	55		mg/Kg	0.94	
Chromium	19		mg/Kg	0.94	
Cobalt	2.4		mg/Kg	0.47	
Copper	6.5		mg/Kg	0.94	
Lead	36		mg/Kg	0.94	
Nickel	12		mg/Kg	0.94	
Vanadium	11		mg/Kg	0.94	
Zinc	73		mg/Kg	4.7	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	2.8		mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-04

Lab ID: 447837-002

Collected: 07/09/21 10:15

Matrix: Soil

447837-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.3		mg/Kg	0.93	0.62
Barium	46		mg/Kg	0.93	
Chromium	17		mg/Kg	0.93	
Cobalt	2.4		mg/Kg	0.46	
Copper	5.6		mg/Kg	0.93	
Lead	44		mg/Kg	0.93	
Nickel	11		mg/Kg	0.93	
Vanadium	11		mg/Kg	0.93	
Zinc	60		mg/Kg	4.6	

Detection Summary

Sample ID: 1-SOIL-05
Lab ID: 447837-003
Collected: 07/09/21 10:30
Matrix: Soil
447837-003 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.5		mg/Kg	0.85	0.57
Barium	26		mg/Kg	0.85	
Chromium	12		mg/Kg	0.85	
Cobalt	1.9		mg/Kg	0.42	
Copper	2.3		mg/Kg	0.85	
Lead	5.3		mg/Kg	0.85	
Nickel	9.2		mg/Kg	0.85	
Vanadium	8.7		mg/Kg	0.85	
Zinc	13		mg/Kg	4.2	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	1.6		mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-06
Lab ID: 447837-004
Collected: 07/09/21 10:45
Matrix: Soil
447837-004 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.5		mg/Kg	0.88	0.59
Barium	18		mg/Kg	0.88	
Chromium	12		mg/Kg	0.88	
Cobalt	1.9		mg/Kg	0.44	
Copper	4.4		mg/Kg	0.88	
Lead	2.4		mg/Kg	0.88	
Nickel	9.0		mg/Kg	0.88	
Vanadium	8.2		mg/Kg	0.88	
Zinc	7.1		mg/Kg	4.4	

Detection Summary

Sample ID: 1-SOIL-07
Lab ID: 447837-005
Collected: 07/09/21 11:00
Matrix: Soil
447837-005 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	0.84	J	mg/Kg	0.95	0.64
Barium	22		mg/Kg	0.95	
Chromium	13		mg/Kg	0.95	
Cobalt	1.9		mg/Kg	0.48	
Copper	2.5		mg/Kg	0.95	
Lead	2.1		mg/Kg	0.95	
Nickel	9.0		mg/Kg	0.95	
Vanadium	8.9		mg/Kg	0.95	
Zinc	7.4		mg/Kg	4.8	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	0.68	J	mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-08
Lab ID: 447837-006
Collected: 07/09/21 11:30
Matrix: Soil
447837-006 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.4		mg/Kg	0.83	0.56
Barium	25		mg/Kg	0.83	
Chromium	12		mg/Kg	0.83	
Cobalt	2.0		mg/Kg	0.42	
Copper	3.0		mg/Kg	0.83	
Lead	4.5		mg/Kg	0.83	
Nickel	8.1		mg/Kg	0.83	
Vanadium	9.6		mg/Kg	0.83	
Zinc	9.3		mg/Kg	4.2	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	1.3		mg/Kg	0.80	0.26
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J Estimated value

Enthalpy ANALYTICAL Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Chain of Custody Record Lab No: <u>147837</u> Page: <u>1</u> of <u>1</u>		Turn Around Time (rush by advanced notice only) Standard: 5 Day: 3 Day: X 2 Day: 1 Day: Custom TAT:			
		Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = (lab use only)					

CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments			
Company:	Vista Environmental Consulting	Name:	City of Seaside -Former Fort Ord												
Report To:	Chris Burns/Aleshia Washington	Number:	211283002												
Email:	chrisburns@vista-env.com	P.O. #:													
Address:	2984 Teagarden Street	Address:													
	San Leandro, Ca 94577														
Phone:	510-346-8860	Global ID:													
Fax:	aleshia.washington@vista-env.com	Sampled By:	C. Burns												

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	CAM 17 Metals Method 6010B/7471A	Hexavalent Chromium Method 7196A
1-Soil-03	7/9/21	1000	Soil	1	ICE	X	X
1-Soil-04	7/9/21	1015	Soil	1	ICE	X	X
1-Soil-05	7/9/21	1030	Soil	1	ICE	X	X
1-Soil-06	7/9/21	1045	Soil	1	ICE	X	X
1-Soil-07	7/9/21	1100	Soil	1	ICE	X	X
1-Soil-08	7/9/21	1130	Soil	1	ICE	X	X
7							
8							
9							
10							

4PT Composite
 6"-12" BGS
 12"-18" BGS Building
 18"-24" BGS
 6"-12" BGS
 12"-18" BGS
 18"-24" BGS
 3PT Composite

Signature	Print Name	Company / Title	Date / Time
	Chris Burns	Vista	07/09/21 / 11:30
	Jonathan Beck	Vista	7/11/21 1326
	Jonathan Beck	Vista	7/12/21 0823
	Jonathan Beck	SEA	7/12/21 0823
	Miguel Mendez	SEA	7/12/21 1300
	Greene Silverthorn	F.A.	7/13/21 10:58

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 447837
Date Received: 7/12/21

Client: Vista
Project: _____

Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (skip Section 3 below)

If no cooler Sample Temp (°C): 18.1 using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/12/21 By (print) mtc (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

Were custody papers dry, filled out properly, and the project identifiable

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time

Date Logged in 7/12/21

By (print) mtc

(sign) [Signature]

Date Labeled 7/12/21

By (print) mtc

(sign) [Signature]



SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista Environmental Consulting Project: City of Seaside - Former Fort Ord

Date Received: 07/13/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☒ No (skip section 2) Sample Temp (°C) (No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 5.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam

☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.0 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: Deena Sykes Date: 7/13/21

7/12/2021



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553944184

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

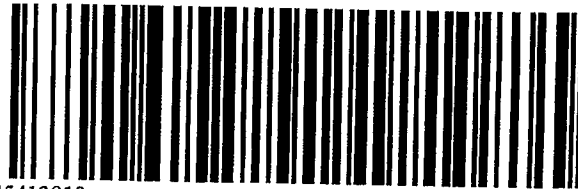
ORANGE

S10003H

COD: \$0.00

Weight: 0 lb(s)

Reference:



Delivery Instructions:

Signature Type: STANDARD

45413819

ORC CA927-EH1

Package 3 of 6

Print Date: 7/12/2021 11:56 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.9/1.0 (3) 10:18

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-001

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.8	0.94	0.63	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	55	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	19	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.4	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	6.5	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	36	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	12	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	73	4.7		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-002

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.3	0.93	0.62	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	46	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	17	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.4	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	5.6	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	44	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	60	4.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-05

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-003

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	0.85	0.57	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	26	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.3	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	5.3	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.2	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.7	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	13	4.2		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-06

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-004

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	0.88	0.59	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	18	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	4.4	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.4	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.2	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.1	4.4		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-07

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-005

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	0.84 J	0.95	0.64	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	22	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.5	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.9	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.4	4.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-08

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-006

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	0.83	0.56	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	25	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.0	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	3.0	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	4.5	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.1	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.6	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.3	4.2		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933971

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933972

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.45	98	80-120	mg/Kg
Arsenic	100.0	95.65	96	80-120	mg/Kg
Barium	100.0	101.3	101	80-120	mg/Kg
Beryllium	100.0	98.30	98	80-120	mg/Kg
Cadmium	100.0	109.0	109	80-120	mg/Kg
Chromium	100.0	98.19	98	80-120	mg/Kg
Cobalt	100.0	105.5	106	80-120	mg/Kg
Copper	100.0	100.6	101	80-120	mg/Kg
Lead	100.0	100.7	101	80-120	mg/Kg
Molybdenum	100.0	92.60	93	80-120	mg/Kg
Nickel	100.0	104.7	105	80-120	mg/Kg
Selenium	100.0	95.83	96	80-120	mg/Kg
Silver	50.00	49.17	98	80-120	mg/Kg
Thallium	100.0	104.8	105	80-120	mg/Kg
Vanadium	100.0	97.91	98	80-120	mg/Kg
Zinc	100.0	114.6	115	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933973	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.524	93.46	42.85	46 *	75-125	mg/Kg
Arsenic	2.010	93.46	89.56	94	75-125	mg/Kg
Barium	29.29	93.46	121.2	98	75-125	mg/Kg
Beryllium	0.1810	93.46	93.74	100	75-125	mg/Kg
Cadmium	0.1905	93.46	95.79	102	75-125	mg/Kg
Chromium	12.28	93.46	97.01	91	75-125	mg/Kg
Cobalt	1.848	93.46	92.24	97	75-125	mg/Kg
Copper	3.543	93.46	97.48	101	75-125	mg/Kg
Lead	4.943	93.46	95.42	97	75-125	mg/Kg
Molybdenum	<0.5619	93.46	82.22	88	75-125	mg/Kg
Nickel	10.28	93.46	100.8	97	75-125	mg/Kg
Selenium	<1.714	93.46	91.63	98	75-125	mg/Kg
Silver	0.2286	46.73	42.99	92	75-125	mg/Kg
Thallium	<1.048	93.46	93.74	100	75-125	mg/Kg
Vanadium	9.924	93.46	96.82	93	75-125	mg/Kg
Zinc	14.43	93.46	114.9	107	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933974	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	84.03	39.08	47 *	75-125	mg/Kg	1	41
Arsenic	84.03	83.61	97	75-125	mg/Kg	4	35
Barium	84.03	118.5	106	75-125	mg/Kg	6	20
Beryllium	84.03	84.12	100	75-125	mg/Kg	0	20
Cadmium	84.03	90.08	107	75-125	mg/Kg	4	20
Chromium	84.03	93.61	97	75-125	mg/Kg	6	20
Cobalt	84.03	86.81	101	75-125	mg/Kg	4	20
Copper	84.03	88.07	101	75-125	mg/Kg	0	20
Lead	84.03	88.66	100	75-125	mg/Kg	3	20
Molybdenum	84.03	76.61	91	75-125	mg/Kg	4	20
Nickel	84.03	98.40	105	75-125	mg/Kg	7	20
Selenium	84.03	84.12	100	75-125	mg/Kg	2	20
Silver	42.02	40.49	96	75-125	mg/Kg	5	20
Thallium	84.03	86.97	104	75-125	mg/Kg	3	20
Vanadium	84.03	93.11	99	75-125	mg/Kg	6	20
Zinc	84.03	107.6	111	75-125	mg/Kg	3	20

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 270482	Analysis: EPA 7471A
Lab ID: QC934085	Prepared: 07/13/21	Analyst: TNN
Matrix: Soil	Analyzed: 07/14/21	
Diln Fac: 1.000	Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270482**Analysis:** EPA 7471A**Lab ID:** QC934086**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8107	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447880-001	Batch#: 270482	Prep: METHOD
Lab ID: QC934087	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04414	0.9434	0.9193	97	75-125	mg/Kg

Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447880-001	Batch#: 270482	Prep: METHOD
Lab ID: QC934088	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.9804	0.9748	99	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-03

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-001

Sampled: 07/09/21 10:00

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	2.8	0.80	0.26	mg/Kg

Field ID: 1-SOIL-04

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-002

Sampled: 07/09/21 10:15

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1-SOIL-05

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-003

Sampled: 07/09/21 10:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	1.6	0.80	0.26	mg/Kg

Field ID: 1-SOIL-06

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-004

Sampled: 07/09/21 10:45

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1-SOIL-07

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-005

Sampled: 07/09/21 11:00

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.68 J	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 447837		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL-08	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447837-006	Sampled: 07/09/21 11:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	1.3	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 270632	Analysis: EPA 7196A	
Lab ID: QC934467	Prepared: 07/14/21 18:30	Analyst: ATP	
Matrix: Soil	Analyzed: 07/15/21 14:52		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270632	Analysis: EPA 7196A
Lab ID: QC934468	Prepared: 07/14/21 18:30	Analyst: ATP
Matrix: Soil	Analyzed: 07/15/21 14:52	
Diln Fac: 5.000	Prep: EPA 3060A	

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/14/21 18:30
Type: MS	Diln Fac: 5.000	Analyzed: 07/15/21 14:52
MSS Lab ID: 447836-001	Batch#: 270632	Prep: EPA 3060A
Lab ID: QC934469	Sampled: 07/09/21 08:30	Analysis: EPA 7196A
Matrix: Soil	Received: 07/12/21	Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/14/21 18:30
Type: MSD	Diln Fac: 5.000	Analyzed: 07/15/21 14:52
MSS Lab ID: 447836-001	Batch#: 270632	Prep: EPA 3060A
Lab ID: QC934470	Sampled: 07/09/21 08:30	Analysis: EPA 7196A
Matrix: Soil	Received: 07/12/21	Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



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Lab Job Number: 449811
Report Level: II
Report Date: 10/06/2021

Analytical Report *prepared for:*

Jeff Austin
Albion Partners
401 Terry A. Francois Blvd.
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San Francisco, CA 94158

Project: SEASIDE - Seaside

Authorized for release by:

Richard Villafania, Project Manager
richard.villafania@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Jeff Austin
Albion Partners
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Lab Job #: 449811
Project No: SEASIDE
Location: Seaside
Date Received: 08/27/21

Sample ID	Lab ID	Collected	Matrix
5A-1-2.5-26AUG2021	449811-001	08/26/21 15:30	Soil
5A-1-7.0-26AUG2021	449811-002	08/26/21 15:35	Soil
5A-2-3.5-26AUG2021	449811-003	08/26/21 15:50	Soil
5A-2-8.0-26AUG2021	449811-004	08/26/21 16:00	Soil
5A-3-3.5-26AUG2021	449811-005	08/26/21 15:40	Soil
5A-3-8.0-26AUG2021	449811-006	08/26/21 15:45	Soil
5B-1-3.5-26AUG2021	449811-007	08/26/21 15:15	Soil
5B-1-7-26AUG2021	449811-008	08/26/21 15:20	Soil
5B-2-3.0-26AUG2021	449811-009	08/26/21 15:00	Soil
5B-2-7.0-26AUG2021	449811-010	08/26/21 15:10	Soil
5B-3-3.5-26AUG2021	449811-011	08/26/21 14:45	Soil
5B-3-7.0-26AUG2021	449811-012	08/26/21 14:50	Soil
2-1-4.0-27AUG2021	449811-013	08/27/21 08:55	Soil
2-1-7.0-27AUG2021	449811-014	08/27/21 09:00	Soil
2-2-3.5-27AUG2021	449811-015	08/27/21 09:05	Soil
2-2-7.5-27AUG2021	449811-016	08/27/21 09:10	Soil
2-3-3.5-27AUG2021	449811-017	08/27/21 08:35	Soil
2-3-7.5-27AUG2021	449811-018	08/27/21 08:40	Soil
3-1-3.0-27AUG2021	449811-019	08/27/21 08:15	Soil
3-1-7.5-27AUG2021	449811-020	08/27/21 08:20	Soil
3-2-2.5-27AUG2021	449811-021	08/27/21 08:00	Soil
3-2-7.0-27AUG2021	449811-022	08/27/21 08:05	Soil
3-3-3.0-27AUG2021	449811-023	08/27/21 07:50	Soil
3-3-7.0-27AUG2021	449811-024	08/27/21 07:55	Soil
3-4-3.0-27AUG2021	449811-025	08/27/21 07:30	Soil
3-4-7.5-27AUG2021	449811-026	08/27/21 07:40	Soil
BG-1-0.5-26AUG2021	449811-027	08/26/21 08:55	Soil
BG-1-1.0-26AUG2021	449811-028	08/26/21 09:00	Soil

Sample Summary

Jeff Austin
 Albion Partners
 401 Terry A. Francois Blvd.
 Suite 110
 San Francisco, CA 94158

Lab Job #: 449811
 Project No: SEASIDE
 Location: Seaside
 Date Received: 08/27/21

Sample ID	Lab ID	Collected	Matrix
BG-1-1.5-26AUG2021	449811-029	08/26/21 09:05	Soil
BG-1-2.0-26AUG2021	449811-030	08/26/21 09:10	Soil
BG-2-0.5-26AUG2021	449811-031	08/26/21 09:20	Soil
BG-2-1.0-26AUG2021	449811-032	08/26/21 09:25	Soil
BG-2-1.5-26AUG2021	449811-033	08/26/21 09:30	Soil
BG-2-2.0-26AUG2021	449811-034	08/26/21 09:35	Soil
BG-3-0.5-26AUG2021	449811-035	08/26/21 09:45	Soil
BG-3-1.0-26AUG2021	449811-036	08/26/21 09:50	Soil
BG-3-1.5-26AUG2021	449811-037	08/26/21 09:55	Soil
BG-3-2.0-26AUG2021	449811-038	08/26/21 10:00	Soil
1-1-3.0-26AUG2021	449811-039	08/26/21 13:00	Soil
1-1-7.0-26AUG2021	449811-040	08/26/21 13:05	Soil
1-2-3.0-26AUG2021	449811-041	08/26/21 13:40	Soil
1-2-7.0-26AUG2021	449811-042	08/26/21 13:30	Soil
1-3-3.5-26AUG2021	449811-043	08/26/21 13:20	Soil
1-3-7.5-26AUG2021	449811-044	08/26/21 13:25	Soil
1-4-3.5-26AUG2021	449811-045	08/26/21 13:40	Soil
1-4-8.0-26AUG2021	449811-046	08/26/21 13:45	Soil
1-5-3.5-26AUG2021	449811-047	08/26/21 13:50	Soil
1-5-8.0-26AUG2021	449811-048	08/26/21 13:55	Soil
1-6-3.5-26AUG2021	449811-049	08/26/21 14:00	Soil
1-6-7.0-26AUG2021	449811-050	08/26/21 14:10	Soil
1-7-3.0-26AUG2021	449811-051	08/26/21 14:15	Soil
1-7-7.5-26AUG2021	449811-052	08/26/21 14:20	Soil
5A HARDSCAPE-3.0-26AUG2021	449811-053	08/26/21 14:20	Soil
5A HARDSCAPE-7.0-26AUG2021	449811-054	08/26/21 14:20	Soil
5B HARDSCAPE-3.0-26AUG2021	449811-055	08/26/21 14:20	Soil
5B HARDSCAPE-7.0-26AUG2021	449811-056	08/26/21 14:20	Soil

Sample Summary

Jeff Austin
Albion Partners
401 Terry A. Francois Blvd.
Suite 110
San Francisco, CA 94158

Lab Job #: 449811
Project No: SEASIDE
Location: Seaside
Date Received: 08/27/21

Sample ID	Lab ID	Collected	Matrix
2 HARDSCAPE-3.0-27AUG2021	449811-057	08/26/21 14:20	Soil
2 HARDSCAPE-7.0-27AUG2021	449811-058	08/26/21 14:20	Soil
3 BUILDING-3.0-27AUG2021	449811-059	08/26/21 14:20	Soil
3 HARDSCAPE-7.0-27AUG2021	449811-060	08/26/21 14:20	Soil
BG-0.5-26AUG2021	449811-061	08/26/21 14:20	Soil
BG-1.0-26AUG2021	449811-062	08/26/21 14:20	Soil
BG-1.5-26AUG2021	449811-063	08/26/21 14:20	Soil
BG-2.0-26AUG2021	449811-064	08/26/21 14:20	Soil
1 HARDSCAPE-3.0-26AUG2021	449811-065	08/26/21 14:20	Soil
1 HARDSCAPE-7.0-26AUG2021	449811-066	08/26/21 14:20	Soil
1 BUILDING-3.0-26AUG2021	449811-067	08/26/21 14:20	Soil
1 BUILDING-7.0-26AUG2021	449811-068	08/26/21 14:20	Soil

Case Narrative

Albion Partners
401 Terry A. Francois Blvd.
Suite 110
San Francisco, CA 94158
Jeff Austin

Lab Job Number: 449811
Project No: SEASIDE
Location: Seaside
Date Received: 08/27/21

This data package contains sample and QC results for sixteen soil composites, requested for the above referenced project on 08/27/21. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7471A):

High response was observed for antimony in the CCV analyzed 09/03/21 15:12; affected data was qualified with "b". Low recoveries were observed for antimony in the MS/MSD of 5A HARDSCAPE-3.0-26AUG2021 (lab # 449811-053); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Richard Villafania

From: Jeff Austin <Jeff@albionpartners.com> on behalf of Jeff Austin
Sent: Tuesday, October 5, 2021 5:31 PM
To: Richard Villafania
Subject: [EXTERNAL] lab job number 449811 - vista seaside

Categories: Need Response

Richard,
Can you re-issue this report with MDLs listed for hex chrome only?
Please advise,
Jeff Austin

Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

Page 1 of 14

Chain of Custody #:

C&T LOGIN#

Project No:

Seaside

EDD Format: standard Rpt Level: ☐ I ☐ II ☐ III ☐ IV

Turnaround Time: Standard 5 day TAT

Sampler: Ryan Fay & Jeff Austin

Report To: Jeff Austin

Company : Albion Partners

Telephone: 415-218-0027

Email: jeff@albionpartners.com

[illegible][illegible]

Notes:

SAMPLE RECEIPT

☐ Intact ☐ Cold

☐ On Ice ☐ Ambient

RELINQUISHED BY:

RECEIVED BY:

8/27/21	570	DATE/TIME	DATE/TIME
8/27/21	1410	DATE/TIME	DATE/TIME
8/27/21	1205	DATE/TIME	DATE/TIME

Page 2 of 4

Chain of Custody #:

C&T LOGIN# 449811

Sampler: Ryan Fay & Jeff Austin

Report To: Jeff Austin

Company : Albion Partners

Telephone: 415-218-0027

Email: jeff@albionpartners.com

Lab No.	Sample ID.	Sampling		Matrix			Chemical Preservative				
		Date	Time	Water	Soil	# of Containers	UPBW	Methanol	HNO ₃	NaOH	None
13	2-1-4.0-27Aug2021	8/27/2021	0855		X		1				X
14	2-1-7.0-27Aug2021	8/27/2021	0900		X		1				X
15	2-2-3.5-27Aug2021	8/27/2021	0905		X		1				X
16	2-2-7.5-27Aug2021	8/27/2021	0910		X		1				X
17	2-3-3.5-27Aug2021	8/27/2021	0835		X		1				X
18	2-3-7.5-27Aug2021	8/27/2021	0840		X		1				X
19	3-1-3.0-27Aug2021	8/27/2021	0815		X		1				X
20	3-1-7.5-27Aug2021	8/27/2021	0820		X		1				X
21	3-2-2.5-27Aug2021	8/27/2021	0800		X		1				X
22	3-2-7.0-27Aug2021	8/27/2021	0805		X		1				X
23	3-3-3.0-27Aug2021	8/27/2021	0750		X		1				X
24	3-3-7.0-27Aug2021	8/27/2021	0755		X		1				X
25	3-4-3.0-27Aug2021	8/27/2021	0730		X		1				X
26	3-4-7.5-27Aug2021	8/27/2021	0740		X		1				X

[illegible]

SAMPLE RECEIPT

☐ Intact ☐ Cold

☐ On Ice ☐ Ambient

RELINQUISHED BY:

DATE/TIME	
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RECEIVED BY:

☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

DATE/TIME

8

1570
DATE/TIME

1000

0	DATE/TIME
---	-----------

16610
DATE/TIME

755
DATE/TIME

DATE/TIME 6/6/99

Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

Page 3 of 4

Analytical Request

118622

Sampler: Ryan Fay & Jeff Austin

Report To: Jeff Austin

Company : Albion Partners

Telephone: 415-218-0027

Email: jeff@albionpartners.com

Lab No.	Sample ID.	Sampling		Matrix		# of Containers	Chemical Preservative				
		Date	Time	Water	Soil		UPBW	Methanol	HNO ₃	NaOH	None
27	BG-1-0.5-26Aug2021	8/26/2021	0855		X		1				X
28	BG-1-1.0-26Aug2021	8/26/2021	0900		X		1				X
29	BG-1-1.5-26Aug2021	8/26/2021	0905		X		1				X
30	BG-1-2.0-26Aug2021	8/26/2021	0910		X		1				X
31	BG-2-0.5-26Aug2021	8/26/2021	0920		X		1				X
32	BG-2-1.0-26Aug2021	8/26/2021	0925		X		1				X
33	BG-2-1.5-26Aug2021	8/26/2021	0930		X		1				X
34	BG-2-2.0-26Aug2021	8/26/2021	0935		X		1				X
35	BG-3-0.5-26Aug2021	8/26/2021	0945		X		1				X
36	BG-3-1.0-26Aug2021	8/26/2021	0950		X		1				X
37	BG-3-1.5-26Aug2021	8/26/2021	0955		X		1				X
38	BG-3-2.0-26Aug2021	8/26/2021	1000		X		1				X

SAMPLE RECEIPT

☐ Intact ☐ Cold

☐ On Ice ☐ Ambient

12/12/80 051

DATE/TIME

RECEIVED BY:

DATE 1570

DATE/TIME

127110

1610
DATE/TIME

735
DATE/TIME

8/21/21

DATE/TIME
6:49:01

Analytical Laboratory Since 1878

2323 Fifth Street

Berkeley, CA 94710

(510)486-0900 Phone

(510)486-0532 Fax

CHAIN OF CUSTODY

Chain of Custody #:

C&T LOGIN #

Project No:

Sampler: Ryan Fay & Jeff Austin

Seaside

Report To: Jeff Austin

EDD Format: standard Rpt Level: ☐ I ☐ II ☐ III ☐ IV

Company : Albion Partners

Turnaround Time: Standard 5 day TAT

Telephone: 415-218-0027

Email: jeff@albionpartners.com

Lab No.	Sample ID.	Sampling		Matrix		# of Containers	Chemical Preservative				
		Date	Time	Water	Soil		UPBW	Methanol	HNO ₃	NaOH	None
39	1-1-3.0-26Aug2021	8/26/2021	1300		X	1					X
40	1-1-7.0-26Aug2021	8/26/2021	1305		X	1					X
41	1-2-3.0-26Aug2021	8/26/2021	1340		X	1					X
42	1-2-7.0-26Aug2021	8/26/2021	1330		X	1					X
43	1-3-3.5-26Aug2021	8/26/2021	1320		X	1					X
44	1-3-7.5-26Aug2021	8/26/2021	1325		X	1					X
45	1-4-3.5-26Aug2021	8/26/2021	1340		X	1					X
46	1-4-8.0-26Aug2021	8/26/2021	1345		X	1					X
47	1-5-3.5-26Aug2021	8/26/2021	1350		X	1					X
48	1-5-8.0-26Aug2021	8/26/2021	1355		X	1					X
49	1-6-3.5-26Aug2021	8/26/2021	1400		X	1					X
50	1-6-7.0-26Aug2021	8/26/2021	1410		X	1					X
51	1-7-3.0-26Aug2021	8/26/2021	1415		X	1					X
52	1-7-7.5-26Aug2021	8/26/2021	1420		X	1					X

Notes:	SAMPLE RECEIPT ☐ Intact ☐ Cold ☐ On Ice ☐ Ambient	RELINQUISHED BY:		RECEIVED BY:	
		DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME
		<i>[Signature]</i>	8/27/21	<i>[Signature]</i>	8/27/21
		<i>[Signature]</i>	1610	<i>[Signature]</i>	1610
		<i>[Signature]</i>	1735	<i>[Signature]</i>	10:49

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 449811
Date Received: 8/27/21

Client: Albion
Project: _____



Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 2 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 8/27/21 By (print) MTC (sign) [Signature]

Section 3:

Important : Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☒ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☒ B ☐ C

Cooler Temp (°C): #1: 4.1, #2: 3.7, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

Were custody papers dry, filled out properly, and the project identifiable

YES NO N/A

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: #15: sample label and COC don't match,

#40 #41 #42 all #40: label says 13:15 but COC says 13:05 // #41 label = 13:30

COC = 13:40 // #42: label 13:40 COC = 13:70

#44: label ok sample missing depth #

Date Logged in 8/27/21 By (print) MTC (sign) [Signature]

Date Labeled 8/27/21 By (print) MTC (sign) [Signature]



SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Albion Partners

Project: Seaside

Date Received: 8/31/21

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 2 ☐ No (skip section 2) Sample Temp (°C) (No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 2.1 #2: 3.1 #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☒ Ice ☒ Ice Packs ☒ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.4 #2: 0.4 #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?		☒	
If custody seals are present, were they intact?			☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	☒		
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)		☒	
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments

See EA-Berkeley Checklist.

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: emf Date: _____

Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal

Sample Acceptance Checklist – Rev 4, 8/8/2017



800-322-5555
www.gls-us.com

#4

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 554472342

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

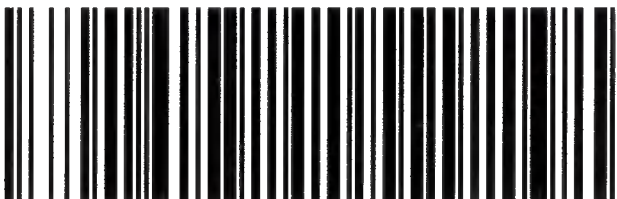
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S10003H



48324082

ORC CA927-EH1

Print Date: 8/30/2021 5:59 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.1 / 0.4

9/2/21

10.49



800-322-5555
www.gls-us.com

2

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 554471633

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

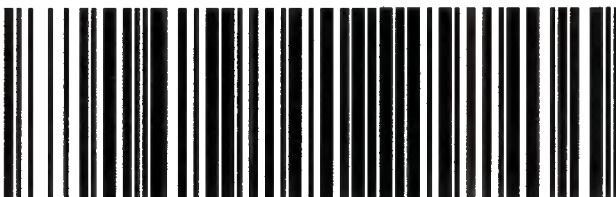
ORANGE

S10003H

COD: \$0.00

Weight: 0 lb(s)

Reference:



48317583

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-EH1

Print Date: 8/30/2021 4:52 PM

Package 2 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

8.1/2.4 8/31/21 10:49

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-053

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	24	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.8	4.8	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-7.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-054

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.8	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	19	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.53	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.53	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.53	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.2	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.2	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	15	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.53	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	10	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	11	5.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5B HARDSCAPE-3.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-055

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	17	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.6	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	1.7	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.17	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	10	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	7.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.9	5.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5B HARDSCAPE-7.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-056

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.6	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	18	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.7	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.5	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	1.6	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	7.6	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.0	5.4	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 2 HARDSCAPE-3.0-27AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-057

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.6	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	15	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.6	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.5	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	1.5	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.17	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.3	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.4	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	6.7	4.8	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 2 HARDSCAPE-7.0-27AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-058

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.3	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	18	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.5	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	1.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.1	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	7.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	6.9	5.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 3 BUILDING-3.0-27AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-059

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.3	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	24	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.7	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.0	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.1	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	6.3	5.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 3 HARDSCAPE-7.0-27AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-060

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.9	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	22	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	15	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	13	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.1	5.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: BG-0.5-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-061

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	42	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	3.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	7.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.9	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	12	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	14	5.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: BG-1.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-062

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	46	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.3	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	3.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	13	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.2	5.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: BG-1.5-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-063

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	43	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.3	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.5	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.7	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.9	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	13	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.2	5.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: BG-2.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-064

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	35	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.1	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.1	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.2	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	12	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.4	5.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 1 HARDSCAPE-3.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-065

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	30	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.1	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	5.9	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.7	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	12	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.6	4.8	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 1 HARDSCAPE-7.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-066

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	31	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	15	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.1	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.9	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.4	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	12	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.4	5.4	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 1 BUILDING-3.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-067

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	19	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.49	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.49	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.8	0.49	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.7	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.2	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.49	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.8	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.9	4.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 1 BUILDING-7.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-068

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.2	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	21	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.3	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.3	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.5	5.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 449811

Client: Albion Partners

Project#: SEASIDE

Location: Seaside

Type: BLANK

Batch#: 273288

Analysis: EPA 6010B

Lab ID: QC941880

Prepared: 09/02/21

Analyst: KLN

Matrix: Soil

Analyzed: 09/03/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	Units
Antimony	ND	3.0	mg/Kg
Arsenic	ND	1.0	mg/Kg
Barium	ND	1.0	mg/Kg
Beryllium	ND	0.50	mg/Kg
Cadmium	ND	0.50	mg/Kg
Chromium	ND	1.0	mg/Kg
Cobalt	ND	0.50	mg/Kg
Copper	ND	1.0	mg/Kg
Lead	ND	1.0	mg/Kg
Molybdenum	ND	1.0	mg/Kg
Nickel	ND	1.0	mg/Kg
Selenium	ND	3.0	mg/Kg
Silver	ND	0.50	mg/Kg
Thallium	ND	3.0	mg/Kg
Vanadium	ND	1.0	mg/Kg
Zinc	ND	5.0	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Type: LCS

Batch#: 273288

Analysis: EPA 6010B

Lab ID: QC941881

Prepared: 09/02/21

Analyst: KLN

Matrix: Soil

Analyzed: 09/03/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units	Qual
Antimony	100.0	108.4	108	80-120	mg/Kg	b
Arsenic	100.0	103.0	103	80-120	mg/Kg	
Barium	100.0	103.4	103	80-120	mg/Kg	
Beryllium	100.0	101.2	101	80-120	mg/Kg	
Cadmium	100.0	100.4	100	80-120	mg/Kg	
Chromium	100.0	98.62	99	80-120	mg/Kg	
Cobalt	100.0	104.4	104	80-120	mg/Kg	
Copper	100.0	99.98	100	80-120	mg/Kg	
Lead	100.0	101.4	101	80-120	mg/Kg	
Molybdenum	100.0	103.7	104	80-120	mg/Kg	
Nickel	100.0	104.8	105	80-120	mg/Kg	
Selenium	100.0	91.96	92	80-120	mg/Kg	
Silver	50.00	49.09	98	80-120	mg/Kg	
Thallium	100.0	108.8	109	80-120	mg/Kg	
Vanadium	100.0	105.2	105	80-120	mg/Kg	
Zinc	100.0	108.4	108	80-120	mg/Kg	

Legend

b: See narrative

California Title 22 Metals: Batch QC

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21

Type: MS

DiIn Fac: 1.000

Analyzed: 09/03/21

MSS Lab ID: 449811-053

Batch#: 273288

Prep: EPA 3050B

Lab ID: QC941882

Sampled: 08/26/21

Analysis: EPA 6010B

Matrix: Soil

Received: 08/27/21

Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	Qual
Antimony	<1.524	93.46	49.21	53 *	75-125	mg/Kg	b
Arsenic	1.715	93.46	101.7	107	75-125	mg/Kg	
Barium	23.52	93.46	118.7	102	75-125	mg/Kg	
Beryllium	0.2596	93.46	97.32	104	75-125	mg/Kg	
Cadmium	<0.08952	93.46	96.34	103	75-125	mg/Kg	
Chromium	12.85	93.46	109.9	104	75-125	mg/Kg	
Cobalt	2.217	93.46	100.3	105	75-125	mg/Kg	
Copper	1.785	93.46	97.73	103	75-125	mg/Kg	
Lead	2.103	93.46	97.11	102	75-125	mg/Kg	
Molybdenum	<0.5619	93.46	97.28	104	75-125	mg/Kg	
Nickel	11.02	93.46	112.1	108	75-125	mg/Kg	
Selenium	<1.714	93.46	88.50	95	75-125	mg/Kg	
Silver	<0.1524	46.73	45.09	97	75-125	mg/Kg	
Thallium	<1.048	93.46	101.4	108	75-125	mg/Kg	
Vanadium	10.57	93.46	112.4	109	75-125	mg/Kg	
Zinc	7.792	93.46	109.1	108	75-125	mg/Kg	

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21

Type: MSD

DiIn Fac: 1.000

Analyzed: 09/03/21

MSS Lab ID: 449811-053

Batch#: 273288

Prep: EPA 3050B

Lab ID: QC941883

Sampled: 08/26/21

Analysis: EPA 6010B

Matrix: Soil

Received: 08/27/21

Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Antimony	96.15	46.52	48 *	75-125	mg/Kg	8	41	b
Arsenic	96.15	103.5	106	75-125	mg/Kg	1	35	
Barium	96.15	122.6	103	75-125	mg/Kg	1	20	
Beryllium	96.15	98.97	103	75-125	mg/Kg	1	20	
Cadmium	96.15	97.99	102	75-125	mg/Kg	1	20	
Chromium	96.15	111.1	102	75-125	mg/Kg	1	20	
Cobalt	96.15	102.0	104	75-125	mg/Kg	1	20	
Copper	96.15	100.2	102	75-125	mg/Kg	0	20	
Lead	96.15	98.46	100	75-125	mg/Kg	1	20	
Molybdenum	96.15	98.51	102	75-125	mg/Kg	2	20	
Nickel	96.15	114.4	107	75-125	mg/Kg	1	20	
Selenium	96.15	90.84	94	75-125	mg/Kg	0	20	
Silver	48.08	46.46	97	75-125	mg/Kg	0	20	
Thallium	96.15	102.8	107	75-125	mg/Kg	1	20	
Vanadium	96.15	115.4	109	75-125	mg/Kg	0	20	
Zinc	96.15	110.9	107	75-125	mg/Kg	1	20	

California Title 22 Metals: Batch QC**Lab #:** 449811**Project#:** SEASIDE**Client:** Albion Partners**Location:** Seaside

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference**b:** See narrative

California Title 22 Metals: Batch QC**Lab #:** 449811**Client:** Albion Partners**Project#:** SEASIDE**Location:** Seaside**Type:** BLANK**Batch#:** 273295**Analysis:** EPA 7471A**Lab ID:** QC941901**Prepared:** 09/02/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 09/02/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 449811**Project#:** SEASIDE**Client:** Albion Partners**Location:** Seaside**Type:** LCS**Batch#:** 273295**Analysis:** EPA 7471A**Lab ID:** QC941902**Prepared:** 09/02/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 09/02/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8092	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21

Type: MS

Diln Fac: 1.000

Analyzed: 09/02/21

MSS Lab ID: 449811-053

Batch#: 273295

Prep: METHOD

Lab ID: QC941903

Sampled: 08/26/21

Analysis: EPA 7471A

Matrix: Soil

Received: 08/27/21

Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04499	0.9804	0.9224	94	75-125	mg/Kg

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21

Type: MSD

Diln Fac: 1.000

Analyzed: 09/02/21

MSS Lab ID: 449811-053

Batch#: 273295

Prep: METHOD

Lab ID: QC941904

Sampled: 08/26/21

Analysis: EPA 7471A

Matrix: Soil

Received: 08/27/21

Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.9434	0.8991	95	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273387

Prep: EPA 3060A

Lab ID: 449811-053

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5A HARDSCAPE-7.0-26AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273388

Prep: EPA 3060A

Lab ID: 449811-054

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5B HARDSCAPE-3.0-26AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 18:00

Type: SAMPLE

Batch#: 273389

Prep: EPA 3060A

Lab ID: 449811-055

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 18:00

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5B HARDSCAPE-7.0-26AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273387

Prep: EPA 3060A

Lab ID: 449811-056

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 2 HARDSCAPE-3.0-27AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273387

Prep: EPA 3060A

Lab ID: 449811-057

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 449811

Client: Albion Partners

Project#: SEASIDE

Location: Seaside

Field ID: 2 HARDSCAPE-7.0-27AUG2021

Type: SAMPLE

Lab ID: 449811-058

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 3 BUILDING-3.0-27AUG2021

Type: SAMPLE

Lab ID: 449811-059

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.28 J	0.80	0.26	mg/Kg

Field ID: 3 HARDSCAPE-7.0-27AUG2021

Type: SAMPLE

Lab ID: 449811-060

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	4.7	0.80	0.26	mg/Kg

Field ID: BG-0.5-26AUG2021

Type: SAMPLE

Lab ID: 449811-061

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: BG-1.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-062

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 449811

Client: Albion Partners

Project#: SEASIDE

Location: Seaside

Field ID: BG-1.5-26AUG2021

Type: SAMPLE

Lab ID: 449811-063

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: BG-2.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-064

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1 HARDSCAPE-3.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-065

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1 HARDSCAPE-7.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-066

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1 BUILDING-3.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-067

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 449811

Client: Albion Partners

Project#: SEASIDE

Location: Seaside

Field ID: 1 BUILDING-7.0-26AUG2021

DiIn Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273387

Prep: EPA 3060A

Lab ID: 449811-068

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 273387

Analysis: EPA 7196A

Lab ID: QC942155

Prepared: 09/02/21 11:25

Analyst: ATP

Matrix: Soil

Analyzed: 09/03/21 17:33

DiIn Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 273388

Analysis: EPA 7196A

Lab ID: QC942159

Prepared: 09/02/21 11:25

Analyst: ATP

Matrix: Soil

Analyzed: 09/03/21 17:33

DiIn Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 273389

Analysis: EPA 7196A

Lab ID: QC942163

Prepared: 09/02/21 18:00

Analyst: ATP

Matrix: Soil

Analyzed: 09/03/21 18:00

DiIn Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 449811

Client: Albion Partners

Project#: SEASIDE

Location: Seaside

Type: LCS

Lab ID: QC942156

Matrix: Soil

Diln Fac: 5.000

Batch#: 273387

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	43.98	110	80-120	mg/Kg

Type: LCS

Lab ID: QC942160

Matrix: Soil

Diln Fac: 5.000

Batch#: 273388

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.78	107	80-120	mg/Kg

Type: LCS

Lab ID: QC942164

Matrix: Soil

Diln Fac: 1.000

Batch#: 273389

Prepared: 09/02/21 18:00

Analyzed: 09/03/21 18:00

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	44.76	112	80-120	mg/Kg

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Type: MS

MSS Lab ID: 449811-053

Lab ID: QC942157

Matrix: Soil

Basis: as received

Diln Fac: 5.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	45.95	115	75-125	mg/Kg

Field ID: 5A HARDSCAPE-7.0-26AUG2021

Type: MS

MSS Lab ID: 449811-054

Lab ID: QC942161

Matrix: Soil

Basis: as received

Diln Fac: 5.000

Batch#: 273388

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	39.75	99	75-125	mg/Kg

Hexavalent Chromium: Batch QC

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5B HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21 18:00

Type: MS

Diln Fac: 1.000

Analyzed: 09/03/21 18:00

MSS Lab ID: 449811-055

Batch#: 273389

Prep: EPA 3060A

Lab ID: QC942165

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	42.12	105	75-125	mg/Kg

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21 11:25

Type: MSD

Diln Fac: 5.000

Analyzed: 09/03/21 17:33

MSS Lab ID: 449811-053

Batch#: 273387

Prep: EPA 3060A

Lab ID: QC942158

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	46.18	115	75-125	mg/Kg	1	20

Field ID: 5A HARDSCAPE-7.0-26AUG2021

Basis: as received

Prepared: 09/02/21 11:25

Type: MSD

Diln Fac: 5.000

Analyzed: 09/03/21 17:33

MSS Lab ID: 449811-054

Batch#: 273388

Prep: EPA 3060A

Lab ID: QC942162

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	39.77	99	75-125	mg/Kg	0	20

Field ID: 5B HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21 18:00

Type: MSD

Diln Fac: 1.000

Analyzed: 09/03/21 18:00

MSS Lab ID: 449811-055

Batch#: 273389

Prep: EPA 3060A

Lab ID: QC943413

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	41.99	105	75-125	mg/Kg	0	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 454491
Report Level: II
Report Date: 12/10/2021

Analytical Report *prepared for:*

Jeff Austin
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member



Sample Summary

Jeff Austin
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 454491
Date Received: 12/03/21

Sample ID	Lab ID	Collected	Matrix
BG-4-0.5-2DEC2021	454491-001	12/02/21 12:30	Soil
BG-4-1.0-2DEC2021	454491-002	12/02/21 12:35	Soil
BG-4-1.5-2DEC2021	454491-003	12/02/21 12:40	Soil
BG-4-2.0-2DEC2021	454491-004	12/02/21 12:45	Soil
BG-5-0.5-2DEC2021	454491-005	12/02/21 13:16	Soil
BG-5-1.0-2DEC2021	454491-006	12/02/21 13:24	Soil
BG-5-1.5-2DEC2021	454491-007	12/02/21 13:29	Soil
BG-5-2.0-2DEC2021	454491-008	12/02/21 13:35	Soil
BG-6-0.5-2DEC2021	454491-009	12/02/21 13:46	Soil
BG-6-1.0-2DEC2021	454491-010	12/02/21 13:49	Soil
BG-6-1.5-2DEC2021	454491-011	12/02/21 13:54	Soil
BG-6-2.0-2DEC2021	454491-012	12/02/21 13:59	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Jeff Austin

Lab Job Number: 454491
Date Received: 12/03/21

This data package contains sample and QC results for twelve soil samples, requested for the above referenced project on 12/03/21. The samples were received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.

Detection Summary

Jeff Austin
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 454491
Date Received: 12/03/21

Sample ID: BG-4-0.5-2DEC2021

Lab ID: 454491-001

Collected: 12/02/21 12:30

Matrix: Soil

454491-001 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.8

mg/Kg

1.1

Sample ID: BG-4-1.0-2DEC2021

Lab ID: 454491-002

Collected: 12/02/21 12:35

Matrix: Soil

454491-002 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.6

mg/Kg

1.1

Sample ID: BG-4-1.5-2DEC2021

Lab ID: 454491-003

Collected: 12/02/21 12:40

Matrix: Soil

454491-003 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.9

mg/Kg

0.86

Sample ID: BG-4-2.0-2DEC2021

Lab ID: 454491-004

Collected: 12/02/21 12:45

Matrix: Soil

454491-004 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.9

mg/Kg

0.93

Sample ID: BG-5-0.5-2DEC2021

Lab ID: 454491-005

Collected: 12/02/21 13:16

Matrix: Soil

454491-005 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.5

mg/Kg

0.89

Detection Summary

Sample ID: BG-5-1.0-2DEC2021
Lab ID: 454491-006
Collected: 12/02/21 13:24
Matrix: Soil
454491-006 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.6

mg/Kg

1.0

Sample ID: BG-5-1.5-2DEC2021
Lab ID: 454491-007
Collected: 12/02/21 13:29
Matrix: Soil
454491-007 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.5

mg/Kg

0.88

Sample ID: BG-5-2.0-2DEC2021
Lab ID: 454491-008
Collected: 12/02/21 13:35
Matrix: Soil
454491-008 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.5

mg/Kg

0.90

Sample ID: BG-6-0.5-2DEC2021
Lab ID: 454491-009
Collected: 12/02/21 13:46
Matrix: Soil
454491-009 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.5

mg/Kg

0.88

Sample ID: BG-6-1.0-2DEC2021
Lab ID: 454491-010
Collected: 12/02/21 13:49
Matrix: Soil
454491-010 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.3

mg/Kg

0.84

Detection Summary

Sample ID: BG-6-1.5-2DEC2021**Lab ID: 454491-011****Collected: 12/02/21 13:54****Matrix: Soil****454491-011 Analyte****Result****Qual****Units****RL**

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.4

mg/Kg

0.98

Sample ID: BG-6-2.0-2DEC2021**Lab ID: 454491-012****Collected: 12/02/21 13:59****Matrix: Soil****454491-012 Analyte****Result****Qual****Units****RL**

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.3

mg/Kg

0.96

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

Page 1 of 1

Chain of Custody #:

Analytical Request

C&T LOGIN # 454491

Project No:

Seaside

EDD Format: standard Rpt Level: ☐ II ☐ III ☐ IV

Turnaround Time: Standard 5 day TAT

Sampler: Jeff Austin

Report To: Jeff Austin

Company : Vista

Telephone: 415-218-0027

Email: jeff@vista-env.com

Lab No.	Sample ID.	Sampling		Matrix		Chemical Preservative			
		Date	Time	Water	Soil	# of Containers	UPBW	Methanol	HNO ₃
1	BG-4-0.5-2Dec2021	12/2/2021	1230	X		1			X
2	BG-4-1.0-2Dec2021	12/2/2021	1235	X		1			X
3	BG-4-1.5-2Dec2021	12/2/2021	1240	X		1			X
4	BG-4-2.0-2Dec2021	12/2/2021	1245	X		1			X
5	BG-5-0.5-2Dec2021	12/2/2021	1316	X		1			X
6	BG-5-1.0-2Dec2021	12/2/2021	1324	X		1			X
7	BG-5-1.5-2Dec2021	12/2/2021	1329	X		1			X
8	BG-5-2.0-2Dec2021	12/2/2021	1335	X		1			X
9	BG-6-0.5-2Dec2021	12/2/2021	1346	X		1			X
10	BG-6-1.0-2Dec2021	12/2/2021	1349	X		1			X
11	BG-6-1.5-2Dec2021	12/2/2021	1354	X		1			X
12	BG-6-2.0-2Dec2021	12/2/2021	1359	X		1			X

Notes:

RELINQUISHED BY:

RECEIVED BY:

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME
12/3/21 1020	12/3/21 1525	12/3/21 1525	12/3/21 1525
12/3/21 17:36	12/3/21 17:36	12/3/21 17:36	12/3/21 17:36

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 454491
Date Received: 12/3/21

Client: Vista
Project: _____


Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 12/3/21 By (print) MY (sign) _____

Section 3:

Important : Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: 5.6, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	/		
Were Method 5035 sampling containers present?		/	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	/		
Are there any missing / extra samples?		/	
Are samples in the appropriate containers for indicated tests?	/		
Are sample labels present, in good condition and complete?	/		
Does the container count match the COC?	/		
Do the sample labels agree with custody papers?	/		
Was sufficient amount of sample sent for tests requested?	/		
Did you change the hold time in LIMS for unpreserved VOAs?			/
Did you change the hold time in LIMS for preserved terracores?			/
Are bubbles > 6mm present in VOA samples?			/
Was the client contacted concerning this sample delivery?		/	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
☐ H2SO4 lot# _____ added to samples _____ on/at _____			
☐ HCL lot# _____ added to samples _____ on/at _____			
☐ HNO3 lot# _____ added to samples _____ on/at _____			
☐ NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: _____

Date Logged in 12/3/21 By (print) MY for SHD (sign) _____
Date Labeled 12/3/21 By (print) MY (sign) _____



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: VistaProject: SeasideDate Received: 12/04/21Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)Sample Temp (°C)
(No Cooler) : _____Sample Temp (°C), One from each cooler: #1: 3.5 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Grayhound

Section 3

Was the cooler packed with: ☒ Ice ☒ Ice Packs ☒ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____Cooler Temp (°C): #1: 1.4 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	☒	☐	☐
Are sample IDs present?	☒	☐	☐
Are sampling dates & times present?	☒	☐	☐
Is a relinquished signature present?	☒	☐	☐
Are the tests required clearly indicated on the COC?	☒	☐	☐
Are custody seals present?	☐	☒	☐
If custody seals are present, were they intact?	☐	☐	☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	☒	☐	☐
Did all samples arrive intact? If no, indicate in Section 4 below.	☒	☐	☐
Did all bottle labels agree with COC? (ID, dates and times)	☒	☐	☐
Were the samples collected in the correct containers for the required tests?	☒	☐	☐
Are the containers labeled with the correct preservatives?	☐	☐	☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	☐	☐	☒
Was a sufficient amount of sample submitted for the requested tests?	☒	☐	☐

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____☐ Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: [Signature]Date: 12/04/21

STD PPD

03DEC21 07:09P

** LABEL **

Schd: GLI 6849

GLI 3089816092

Pcs: 6 of 9

LOS ANGELES, CA



Coder #4
1.4/95

From: Enthalpy Analytical - Orange
925-487-8029

RECV: ENTHALPY ANALYTICAL LLC

931 W BARKLEY AVE

Manual Wght:

354.0

Tariff Wght:

354.0

ORANGE, CA 92868

Phone: 925-487-8029

PO/Ref #:

Standard

Agency Phone: (213) 629-8420

WWW.SHIPGREYHOUND.COM

Arsenic

Lab #: 454491

Client: Vista Environmental

Project#: STANDARD

Location:
Field ID: BG-4-0.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-001

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.8	1.1	mg/Kg

Field ID: BG-4-1.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-002

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.6	1.1	mg/Kg

Field ID: BG-4-1.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-003

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.9	0.86	mg/Kg

Field ID: BG-4-2.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-004

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.9	0.93	mg/Kg

Field ID: BG-5-0.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-005

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.5	0.89	mg/Kg

Arsenic

Lab #: 454491

Client: Vista Environmental

Project#: STANDARD

Location:
Field ID: BG-5-1.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-006

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.6	1.0	mg/Kg

Field ID: BG-5-1.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-007

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.5	0.88	mg/Kg

Field ID: BG-5-2.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-008

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.5	0.90	mg/Kg

Field ID: BG-6-0.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-009

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.5	0.88	mg/Kg

Field ID: BG-6-1.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-010

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.3	0.84	mg/Kg

Arsenic

Lab #: 454491

Client: Vista Environmental

Project#: STANDARD

Location:
Field ID: BG-6-1.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-011

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.4	0.98	mg/Kg

Field ID: BG-6-2.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-012

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.3	0.96	mg/Kg

Type: BLANK

Lab ID: QC959082

Matrix: Soil

Diln Fac: 1.000

Batch#: 279243

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	ND	1.0	mg/Kg

Type: BLANK

Lab ID: QC959087

Matrix: Soil

Diln Fac: 1.000

Batch#: 279244

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	ND	1.0	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

Arsenic: Batch QC

Lab #: 454491

Client: Vista Environmental

Project#: STANDARD

Location:
Type: LCS

Lab ID: QC959083

Matrix: Soil

Diln Fac: 1.000

Batch#: 279243

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units
Arsenic	100.0	101.6	102	80-120	mg/Kg

Type: LCS

Lab ID: QC959088

Matrix: Soil

Diln Fac: 1.000

Batch#: 279244

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units
Arsenic	100.0	102.1	102	80-120	mg/Kg

Field ID: ZZZZZZZZZZ

Type: MS

MSS Lab ID: 454449-001

Lab ID: QC959084

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Arsenic	<0.6442	92.59	101.7	110	75-125	mg/Kg

Field ID: BG-6-1.0-2DEC2021

Type: MS

MSS Lab ID: 454491-010

Lab ID: QC959089

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Arsenic	1.340	90.09	95.83	105	75-125	mg/Kg

Field ID: ZZZZZZZZZZ

Type: MSD

MSS Lab ID: 454449-001

Lab ID: QC959085

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Arsenic	106.4	110.4	104	75-125	mg/Kg	6	35

Arsenic: Batch QC

Lab #: 454491

Project#: STANDARD

Client: Vista Environmental

Location:
Field ID: BG-6-1.0-2DEC2021

Basis: as received

Prepared: 12/04/21

Type: MSD

Diln Fac: 1.000

Analyzed: 12/06/21

MSS Lab ID: 454491-010

Batch#: 279244

Prep: EPA 3050B

Lab ID: QC959090

Sampled: 12/02/21

Analysis: EPA 6010B

Matrix: Soil

Received: 12/03/21

Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Arsenic	101.0	107.8	105	75-125	mg/Kg	1	35

Legend

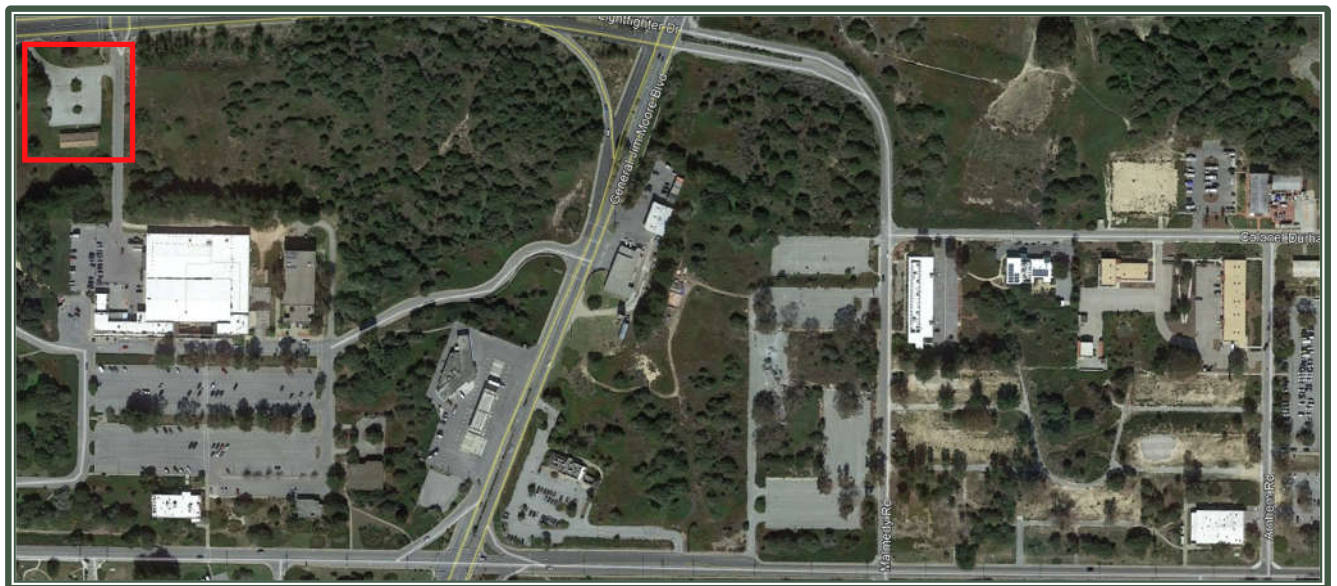
RPD: Relative Percent Difference



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Appendix 3
Hazardous Materials Survey
Report Former Fort Ord - Area 1
Seaside, California



Prepared for:



440 Harcourt Ave.
Seaside, CA 93955

Prepared By:
Vista Environmental Consulting
2984 Teagarden Street
San Leandro, CA 94577

January 14, 2022

Project No. 211283001

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1. SITE PLAN

ASBESTOS DATA KEY

APPENDICES

A. AREA DATA

Hazardous Materials Summary
Asbestos Sampling Inventory
Sample and Asbestos-Containing Material Locations Drawings
Photo Documentation
Asbestos Analytical Reports
Lead XRF Sequential Reports
Waste Characterization Analytical Reports

EXECUTIVE SUMMARY

Vista Environmental Consulting (Vista) performed a pre-demolition hazardous materials survey of Area 1 on April 21 and 30, 2021 at the Former Fort Ord, Seaside, California (Project Site).

The Area 1 building is part of Fort Ord which is a former United States Army post on the Monterey Bay coast which closed in 1994. The Army left behind approximately 1,600 buildings ranging in age from the early 1900's to the late 1980's. Many of the buildings are currently in a state of disrepair. This building is set for demolition in an effort to redevelop the area.

The survey was performed to identify and sample accessible, suspect asbestos-containing materials, representative building components for the presence of lead-containing surface coatings/lead-based paints (LCSC/LBP), Polychlorinated Biphenyls (PCBs) in light fixture ballasts, and other hazardous materials that may be in the path of construction for the demolition project. Vista also performed waste characterization estimate sampling for lead in Areas 1, 3, and 5. This sampling was not performed on the buildings that make up Area 2 because the area is an active fire station and sampling would have destroyed finishes and the building envelope.

The results of the survey indicate the following:

Location	Asbestos	Lead-Based Paint and/or Materials	Lead-Containing Paint	Exceeds Title 22 Disposal Levels for Lead or Needs Additional Analysis	Universal Waste, Suspect PCBs, and Other Hazardous Materials
Area 1 Building and Hardscape	☒	☒	☒	No	☒

Subsurface utility piping is assumed to be present throughout the Project Site.

The Hazardous Materials Summary, Asbestos Sampling Inventory, Sample and Asbestos-Containing Materials Locations Drawings, Photo Documentation, Asbestos Analytical Reports, Lead XRF Sequential Reports, and Waste Characterization Analytical Reports for Area 1 can be found in *Appendix A – Hazardous Materials Area Data*.

Prior to activities which will disturb identified or assumed asbestos, a Cal/OSHA registered and California licensed asbestos contractor must be utilized for abatement of asbestos that will be impacted. Should the removal of identified regulated asbestos-containing materials (RACM) involve at least 160 square feet or 260 linear feet, then notification to the Monterey Bay Air

Resources District (MBARD) and Cal/OSHA must be accomplished prior to the initiation of such activities.

All activities involving potential and identified lead-containing surfaces should be conducted in accordance with California Health & Safety Code sections 17920.10 and 10525, 10525.7, Title 8, California Code of Regulations (CCR), Section 1532.1.

In addition, all removal activities involving identified lead-based paints (LBP) must be conducted in accordance with Title 17, CCR, Division 1, Chapter 8, Sections 35001 through 36100, which proscribes the use of California Department of Public Health (CDPH) certified workers, work practices, and other requirements.

Written notification to Cal/OSHA must be accomplished should LBP activities involve equal to or more than 100 square feet or 100 linear feet of removal in accordance with the requirements of 8 CCR 1532.1.

Any welding, cutting or heating of metal surfaces containing surface coatings should be conducted in accordance with 8 CCR 1537 Welding, Cutting, and Heating of Coated Metals, which require surfaces covered with toxic preservatives, and in enclosed areas, be stripped of all toxic coatings for a distance of at least 4 inches, in all directions, from the area of heat application prior to the initiation of such heat application, or 8 CCR 1536 Ventilation Requirements for Welding, Brazing, and Cutting.

Proper waste characterization and disposal of lead and other heavy metal contaminated debris or rinsate from mechanical equipment should be conducted in accordance with 22 CCR Division 4, Chapter 30, and the California Health and Safety Code, Section 25157.8.

Other hazardous wastes were found in all buildings except 4403A. All potential and identified Universal Waste materials (UW) impacted by the work should be removed and recycled or disposed of in accordance with the UW guidelines established by the DTSC, as stated in 22 CCR Sections 66261.9 and 66273.1 thru 66273.90.

All ballasts must be visually inspected prior to disposal to determine if they contain PCB's. Those ballasts marked No PCB's or PCB Free can be considered as such as should be treated as UW - electronic waste. All PCB-containing devices, including, but not limited to ballasts should be removed or have the oils removed and properly handled, collected, stored, transported and

recycled or disposed of by an approved recycling or disposal facility in accordance with the requirements of Title 22 CCR 67426.1.

Devices containing ozone depleting chemicals, petroleum or other chemicals, should be collected, waste characterized, disposed or recycled according to California rules and regulations.

After demolition, the resulting wastes may be hazardous under California and federal RCRA standards for lead and/or other metals and therefore require proper handling, packaging, labeling, and transportation under a proper manifest to a permitted hazardous waste storage, treatment and disposal facility.

The waste characterization estimate data found in this report are estimates only and cannot be used in place of waste characterization sampling after the buildings are demolished and waste streams are segregated. No waste characterization sampling was performed in Area 2 because the buildings were still occupied at the time of the survey and sampling would have destroyed finishes and the building envelope. Further, all surface preparation, paint removal wastes, and paint debris on the ground must be considered RCRA Class I hazardous wastes unless sampling proves otherwise.

Should materials similar to those identified in this report, or if other forms of suspect hazardous materials are encountered, contractors should be instructed to immediately cease work activities which may initiate an exposure episode, and notify the appropriate management personnel.

Report prepared for the Company by:

Christopher R. Burns
Senior Project Manager
CAC #92-0224
LRCIA #6938

1.0 INTRODUCTION

Vista Environmental Consulting (Vista) performed a pre-demolition hazardous materials survey for Area 1 at the Former Fort Ord, Seaside, California (Project Site).

Site Background

Area 1 is part of Fort Ord which is a former United States Army post on the Monterey Bay coast which closed in 1994. Fort Ord was established in 1917, originally as Camp Gigling, as a military training base for infantry troops. In 1917, the East Garrison area and nearby lands on the east side of Fort Ord were purchased to use as a maneuver and training ground for field artillery and cavalry troops stationed at the Presidio of Monterey. In the late 1930s, the administrative buildings, barracks, mess halls, tent pads, and a sewage treatment plant were constructed. In 1938, additional agricultural property was purchased for the development of the Main Garrison. At the same time, beachfront property to the west was donated to the Army. Camp Gigling became Camp Ord in 1939 and then became Fort Ord in 1940. The Main Garrison was constructed between 1940 and the 1960s, starting in the northwest corner of the base and expanding southward and eastward.

In 1990, the US Secretary of Defense announced that the military would begin a process to reduce the number of nationwide military installations and Fort Ord was one of the bases named for closure. In 1991, it was formally announced that Fort Ord would be downsized and the Defense Base Realignment and Closure Commission (BRAC91) recommended that Fort Ord be closed. The closure of most of the former Fort Ord was completed in 1994.

The Army left behind approximately 1,600 buildings ranging in age from the early 1900's to the late 1980's. Many of the buildings are currently in a state of disrepair. These buildings are set for demolition in an effort to redevelop the area.

Building Background

Area 1

The age of Building 1 is unknown, but the original wood framed and sided portion most likely dates to the 1940's based on lead paint levels. The subflooring is also wood. It is 3,100 square feet. At some date the building was renovated and a stucco façade was added over the wood siding. The roofing is clay with a tar impregnated felt underlayment. It is located on the west end of the Project Site at the corner of Lightfighter Drive and 2nd Avenue.

Survey

The purpose of this survey was to identify hazardous building materials so they can be removed, waste characterized, and properly disposed of prior to being impacted by demolition activities. The data provided in this report can assist all parties involved in this project to make informed decisions with regards to regulatory compliance and the health and safety of their employees. This survey included the following:

- Visible and accessible suspect asbestos-containing materials (ACM) were assessed and sampled to determine asbestos content.
- Representative painted and coated building components were assessed and categorized based upon standard selective demolition practices and sampled for lead content which can be used for worker protection estimates.
- Waste characterization estimate sampling for lead.
- Visible and accessible materials with the potential to have hazardous properties that are regulated and are commonly found in buildings were assessed, but not sampled. These materials include, but are not limited to:
 - Universal Waste (UW) materials, such as non-incandescent lamps, batteries, mercury-containing devices, and electronic waste; Batteries include, but are not limited to those found in exit signs, emergency lights, fire alarm systems, and back-up power systems;
 - Polychlorinated biphenyls (PCBs) containing devices such as lamp ballasts, wet-type transformers, and hydraulic systems.
 - Devices which may contain ozone depleting chemicals, such as Heating, Ventilation and Air Conditioning (HVAC) systems, refrigerators, freezers, and water coolers/fountains;

2.0 METHODOLOGY

Vista performed the hazardous materials survey of Area 1 on April 21 and 30, 2021. The asbestos survey was conducted by Christopher Burns, a State of California Division of Occupational Safety and Health (Cal/OSHA) Certified Asbestos Consultant (CAC) #92-0224. Assisting on the survey was Javier Rocha, a Cal/OSHA Certified Site Surveillance Technician (CSST) #02-3244. The lead paint screening survey was conducted by Christopher Burns, who has a Lead-Related Construction Certificate as an Inspector/Assessor (LRCIA) #6938 issued by the State of California Department of Public Health (CDPH).

Sub-surface areas were not included as part of this survey, hence no excavation was conducted to discover buried asbestos utility piping concealed below the surface. The Project Site conditions may change from those outlined in this report as a result of natural and man-made causes.

2.1 *Asbestos*

The asbestos survey was performed generally in accordance with the AHERA protocol (40 CFR Part 763, Subpart E). Visual identification was performed by assessing visible and accessible structural, architectural, and mechanical components for the presence of suspect ACM at the Project Site. The survey of all buildings, except for the Area 2 buildings, were destructive in nature to meet MBARD's definition of "Thoroughly Inspect". Destructive sampling techniques could not be used in Area 2 because the buildings were occupied by an active fire department.

This ACM survey was conducted in the following manner:

- Suspect ACM was categorized into homogeneous materials. A homogeneous material is defined as being a surfacing material, thermal system insulation, or miscellaneous material which is uniform in color and texture. It may also be additionally subcategorized using the date of installation, when available.
- A sampling scheme was developed based upon the location and quantity of the suspect homogeneous ACM. A rough order of magnitude estimate of each suspect homogeneous ACM was calculated and recorded for future reference. A sampling scheme, including a specific number of samples per suspect homogeneous ACM, was calculated prior to sampling.
- Sampling guidelines established by the United States Environmental Protection Agency (USEPA) were utilized for sampling each suspected homogeneous ACM. Methods described in Appendix K of 8 California Code of Regulation (CCR) 1529 were utilized in the collection of each suspect homogeneous ACM sample.
- Trained California asbestos certified personnel, using appropriate sampling tools and 3" long stainless steel cores, sterile leak-tight Whirl-pak® containers or equivalent, collected building materials that were suspected to contain ACM.
- Each suspect ACM sample was collected and sealed in a container and appropriately labeled with a unique sample identification number and recorded on an asbestos bulk sampling log. Each log contains a chain-of-custody to assure the proper transition of the samples from VISTA to the analytical laboratory.
- Sampling tools were decontaminated by using a clean wet cloth between the collection of each suspect sample to prevent the possibility of cross contamination to subsequent suspect ACM samples.

Suspect ACM samples were delivered, under proper chain-of-custody protocol, to SGS Forensic Laboratories (Forensic) in Hayward, California. Forensic is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) and the California Environmental Laboratory Accreditation Program (Cal-ELAP). The samples were submitted for analysis by Polarized Light Microscopy (PLM) utilizing dispersion staining techniques in accordance with the EPA's "Method for the Determination of Asbestos in Bulk Building Materials" U.S. EPA/600/R-93/116, Visual Area Estimate, dated July 1993 and adopted by the NVLAP as Test Method Code 18/A01.

2.2 *Lead*

Vista's lead construction screening survey used an X-Ray Fluorescence (XRF) direct read spectrum analyzer device to take readings of representative painted and coated surfaces for evaluation of lead levels for worker health and safety and preliminary waste characterization prior to construction activities. The device used was a NITON Corporation XRF Spectrum Analyzer, Model XLp- 300 A. This device is a solid-state detector optimized for lead L-shell and K-shell X-ray detection and uses a 40 mCi ¹⁰⁹Cd (1,480 Mbq) isotope for an excitation source.

This survey was a limited screening for the purpose of characterizing the lead content in paint and coatings likely to be disturbed during work activities. For this purpose, XRF analysis was used to screen for lead levels and provides results that are generally representative of typical conditions but are not inclusive of all painted/coated surfaces present at the Project Site. This survey was not a surface by surface inspection as outlined in the U.S. Department of Housing and Urban Development (HUD) Guidelines For the Evaluation and Control of Lead-Based Paint Hazards in Housing pursuant to Title X of the Housing and Community Development Act of 1992. These analytical data can be helpful in evaluation of lead-related environmental risks in general, but cannot be used to calculate worker exposures and are not a substitute for employee exposure monitoring or waste stream sampling.

Lead-Based Paint (LBP) is defined by CDPH as any paint containing lead levels exceeding 0.5 wt % (or 5000 parts per million) via paint chip sampling or 1.0 milligrams per centimeter squared (mg/cm²) or greater via X-Ray Fluorescence (XRF) direct read instrument sampling. Cal/OSHA rules apply to "any detectable concentration of lead" without a specified detection level.

2.3 *Other Hazardous Materials*

Devices with potential hazardous materials were visually identified during the survey walk-through and their quantities were estimated and recorded. No attempt was made to disassemble devices or sample suspect materials within the devices. For example, fluorescent light fixtures must be presumed to contain Universal Waste lamps, and ballasts which contain PCB oil are electronic waste, pending removal and disassembly of each unit to determine explicit product specific information that proves otherwise.

2.4 *Waste Characterization Estimate*

Vista performed waste characterization estimate sampling for lead in Area 1. Building components were classified and estimates of percentage by weight of the component materials were calculated. Painted and unpainted metal were not included, because metal is usually salvaged and recycled during demolition projects. Asbestos-containing materials were not included since these materials must be removed prior to demolition activities. Concrete was not included since this material is usually salvaged and recycled. Materials stored on the Project Site that were not part of the building structure were also not accessed. All samples were analyzed for lead content.

Samples were delivered, under proper chain-of-custody protocol, to Forensic. This laboratory is accredited under American Industrial Hygiene Association (AIHA), the Environmental Lead Laboratory Accreditation Program (ELLAP), and the California Department of Public Health (CDPH) for multiple metals analysis. The TTLC (Total Threshold Limit Concentration) samples were analyzed by EPA Method 2050B/7000B for metals by Flame Atomic Absorption (FAA).

3.0 RESULTS

The following buildings were surveyed and contain the following hazardous materials:

Location	Asbestos	Lead-Based Paint and/or Materials	Lead-Containing Paint	Exceeds Title 22 Disposal Levels for Lead or Needs Additional Analysis	Universal Waste, Suspect PCBs, and Other Hazardous Materials
Area 1 Building and Hardscape	☒	☒	☒	No	☒

Subsurface utility piping is assumed to be present throughout the Project Site.

The Hazardous Materials Summary, Asbestos Sampling Inventory, Sample and Asbestos-Containing Materials Locations Drawings, Photo Documentation, Asbestos Analytical Reports, Lead XRF Sequential Reports, and Waste Characterization Analytical Reports for Area 1 can be found in *Appendix A – Hazardous Materials Area Data*.

4.0 RECOMMENDATIONS

4.1 *Asbestos*

The results of the survey indicate that asbestos-containing materials **are present** at the Project Site.

Work performed during any activities that disturb the asbestos-containing materials identified in this report must be done in compliance with the most recent edition of all applicable federal, state, and local regulations, standards, and codes governing abatement, transport, and disposal of asbestos-containing materials. These include, but are not limited to, the following:

- CCR, Title 8, Chapter 3.2, Subchapter 2, Article 2.5 - Registration Asbestos-Related Work Sections 341.6 through 341.14
- CCR, Title 8, Section 1529 - Asbestos in the Construction Industry
- MBARD Rule 424, National Emission Standards For Hazardous Air Pollutants (NESHAPS)
- 40 CFR Part 763 - Subpart E, Asbestos Containing Materials in Schools (AHERA)
- California Code of Regulations, Title 17, Section 93015

Prior to activities which will disturb identified or assumed asbestos, a Cal/OSHA registered and California licensed asbestos contractor must be utilized for abatement of asbestos that will be impacted. Vista recommends that all abatement operations be conducted under the direction of a California Certified Asbestos Consultant.

Should the removal of identified regulated asbestos-containing materials (RACM) involve at least 160 square feet or 260 linear feet, then notification to the Monterey Bay Air Resources District (MBARD) and Cal/OSHA must be accomplished prior to the initiation of such activities.

Materials encountered in the buildings that are not part of this report must be properly sampled for the content of asbestos or assumed to be asbestos containing prior to any disturbance.

4.2 Lead

The results of the survey indicate that lead-based paint and materials and lead-containing paints **are present** at the Project Site.

At present there is no state or federal regulation requiring mandatory lead removal or abatement prior to disturbance of building materials with identified lead paint or coatings. However, there are applicable Cal/OSHA worker protection and training requirements, Cal/EPA waste disposal requirements, CDPH requirements for public and residential buildings, and SB 460 lead hazard regulations that apply to lead-related construction activities, abatement activities and their associated wastes. The following is a brief discussion and summary of applicable regulatory requirements:

♦ **Cal/OSHA:** Title 8, California Code of Regulation (CCR), Section 1532.1 (8 CCR 1532.1) governs occupational exposure to lead. This regulation requires that prior to initiation of certain activities, referred to as “trigger tasks”, workers must be trained, medically evaluated, and properly fitted with respiratory protection and protective clothing until statistically reliable personal eight-hour time weighted average (TWA) results indicate lead exposure levels below the Personal Exposure Limit (PEL) for each unique task which disturbs lead-based and lead-containing coatings. This process is known as a Negative Exposure Assessment or NEA.

If the result of the exposure assessment is above the Action Level (AL) additional monitoring is required and if the result is above the PEL additional exposure monitoring, worker protection (including respirator protection and PPE), training and medical requirements apply. However even where the NEA criteria is met, certain hazard communication training and work practice controls still apply where lead is disturbed. “Trigger tasks” are tasks that are assumed to exceed the PEL pending an exposure assessment and they encompass the majority of construction activities that disturb surface coatings. Examples of “trigger” tasks range from manual paint scraping as a lower expected exposure up to hot work and abrasive blasting as the highest expected exposures, and include any non-listed task that the employer determines may potentially expose employees to lead levels above the AL.

“OSHA does not consider any method that relies solely on the analysis of bulk materials or surface content of lead (or other toxic material) to be acceptable for safely predicting employee exposure to airborne contaminants. Without air monitoring results or without the benefit of historical or objective data (including air sampling which clearly demonstrates that the employee can not be exposed above the action level during any process, operation, or activity) the analysis of bulk or surface samples can not be used to determine employee exposure.”- OSHA Standard Interpretation May 8, 2000.

OSHA states that these rules apply to “any detectable concentration of lead” without a specified detection level. Due to the Consumer Product Safety Commission currently allowing paint to contain up to 90 parts per million (ppm) or 0.009 wt% of lead, the variation of lead content due to aging and weathering, and the variation of detection limits associated with analysis of bulk materials, such as paint chips and surface content analysis via XRF, it is recommended that all painted or coated surfaces be treated as potentially containing lead. Positive analytical results by either method can be used to indicate that detectable lead is present but negative results cannot be interpreted as conclusively demonstrating the absence of lead.

Analytical data from analysis of bulk materials or surface content of lead can be helpful in evaluation of lead-related environmental risks in general but cannot be used to calculate worker exposures and are not a substitute for employee exposure monitoring. As a result, any employee that works around potential lead-based or lead-containing coatings must have HAZCOM training and personal exposure air monitoring is additionally required for employees that disturb such coatings. Significant additional certification, notification, and work practices are required for materials found to be lead-based.

Any welding, cutting or heating of metal surfaces containing surface coatings should be conducted in accordance with 29 CFR 1926.354 and 8 CCR 1537. These regulations require surfaces covered with toxic preservatives, and in enclosed areas, be stripped of all toxic coatings for a distance of at least 4 inches, in all directions, from the area of heat application prior to the initiation of such heat application.

♦ **Cal/EPA** through the Division of Toxic Substance Control (DTSC) regulates disposal of lead hazardous waste (22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes). DTSC has issued guidance indicating that architectural debris with intact lead paint is normally expected to be handled as general construction waste. However, waste stream segregation and analysis is still required for all lead painted or coated debris regardless of if the paint or coating is intact on a building component or not. The resulting wastes may be hazardous under California and federal RCRA standards for lead and therefore require proper handling, packaging, labeling, and transportation under a proper manifest to a permitted hazardous waste storage, treatment and disposal facility.

♦ **CDPH**: The Department of Public Health (CDPH) has specific requirements (Title 17 Sections 35001 thru 36100 et. al.) for hazard assessment and work in public or residential structures in

regards to lead-based paint. These regulations require special certifications, work practices, and notification for such activities.

♦ **Senate Bill 460 (SB 460):** An act to amend Section 1941.1 of the Civil Code, and to amend Sections 17961, 17980, and 124130 of, and to add Sections 17920.10, 105251, 105252, 105253, 105254, 105255, 105256, and 105257 to, the Health and Safety Code, relating to lead abatement. This bill allows for fines and criminal penalties to be levied on any person who is found to have performed lead abatement without containment or created a measurable “lead hazard” based upon current CDPH standards. A “lead hazard” means deteriorated lead-based paint, lead contaminated dust, lead contaminated soil, disturbing lead-based paint or presumed lead-based paint without containment, or any other nuisance which may result in persistent and quantifiable lead exposure.

Vista recommends that all parties coming into contact with paint that has detectable lead content follow all applicable federal, state and local regulations relating to employee health and safety and proper disposal of generated wastes.

4.3 *Other Hazardous Materials*

All potential and identified Universal Waste materials (UW) impacted by the work should be removed and recycled or disposed of in accordance with the UW guidelines established by the DTSC, as stated in 22 CCR Sections 66261.9 and 66273.1 thru 66273.90.

Vista’s limited visual survey indicated that light fixtures with ballasts that may contain PCB oil are present. However, due to the limited nature of the random spot checks, Vista recommends that all ballasts be visually inspected prior to disposal to determine if they contain PCB’s. Those ballasts marked No PCB’s or PCB Free can be considered as such as should be treated as UW - electronic waste.

Devices containing ozone depleting chemicals, low-level radiation, and halon should be collected, waste characterized, disposed or recycled according to California rules and regulations.

All personnel who perform hazardous materials work must be trained and qualified to do so. They must also follow the most current OSHA regulations including 29 CFR 1910.120 and 8 CCR 5192, Hazardous Waste Operations and Emergency Response, as well as other applicable federal, state and local laws and regulations.

4.4 *Waste Characterization Estimate*

Waste stream segregation and analysis is required in accordance with 22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes for all paint or coating debris regardless of if the paint or coating is intact. The resulting wastes may be hazardous under California and federal RCRA standards for lead and/or other metals and therefore require proper handling, packaging, labeling, and transportation under a proper manifest to a permitted hazardous waste storage, treatment and disposal facility.

The waste characterization estimate data found in this report are estimates only and cannot be used in place of waste characterization sampling after the buildings are demolished and the waste streams are segregated. Further, all surface preparation, paint removal wastes, and paint debris on the ground must be considered RCRA Class I hazardous wastes unless sampling proves otherwise.

5.0 LIMITATIONS & EXCLUSIONS

Quantities and locations are based upon areas that were accessed. Materials similar those in this report may be present in areas which were not accessed. Because of this Vista recommends including line item pricing, allowances, and/or additive/deductive wording to bid sheets for unforeseen conditions.

All material quantities reported herein are rough order of magnitude estimates and should not be used for bidding purposes. Contractors are responsible for accurately determining quantities and locations of materials identified. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, PRIOR to bidding.

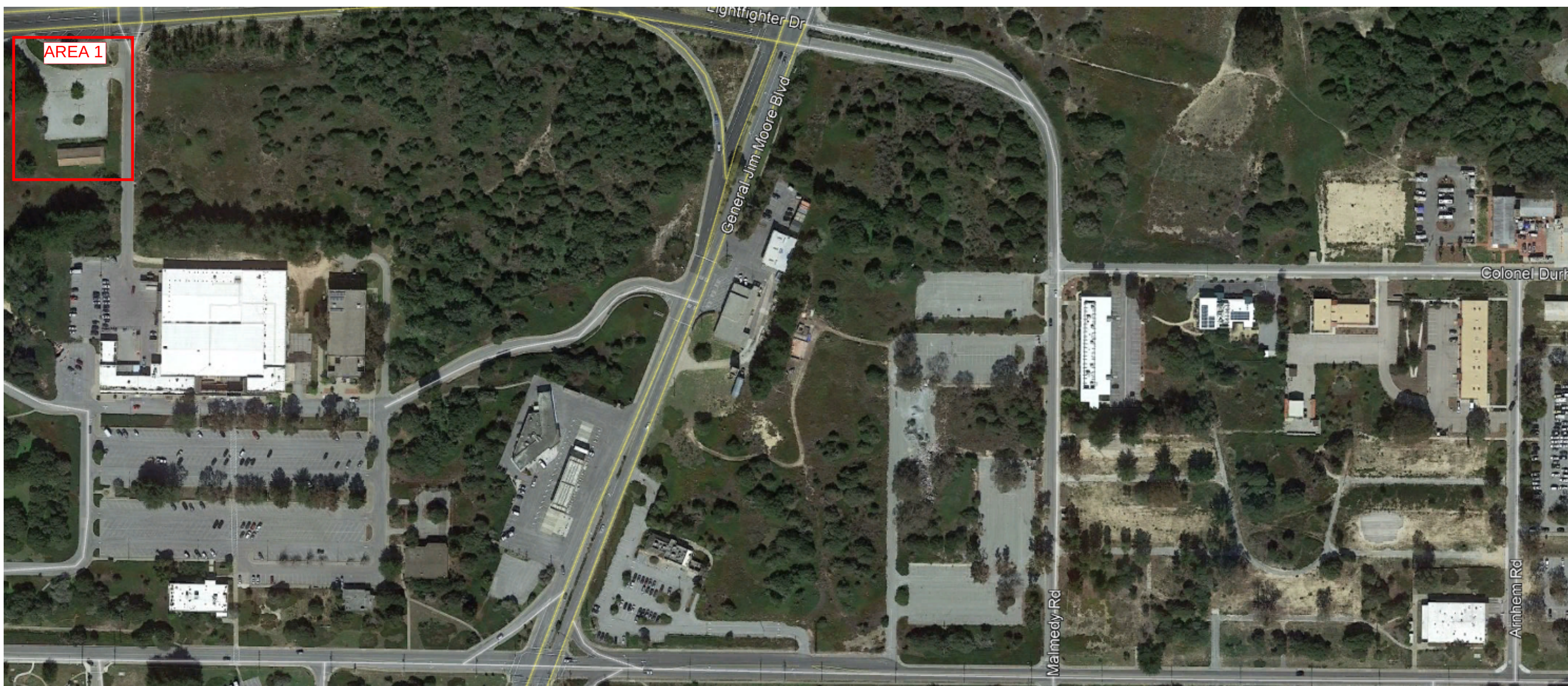
Respectfully Submitted,
Vista Environmental Consulting

Reviewed and Approved

Christopher R. Burns
Senior Project Manager
CAC #92-0224
LRCIA #6938

Charles R. Bove
Principal
CAC #92-0160

FIGURE 1
SITE PLAN



ASBESTOS DATA KEY

Bulk Sample Log showing Building # (1) Homo. ID ("S") and sample # (01)

LOCATION: Seaside (BUILDING - 1) PROJECT NUMBER: 211283001

SAMPLED BY: JR CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1	S	01	VFT/MAS	UNKNOWN BLACK/BLACK	UNDER VFT& CARPET.	
1	S	02	↓	↓	↓	

Sample Analysis (Bulk & Point Count) showing Building # (1) Homo. ID ("S") and sample # (01)

1-S-01	12414090	
Layer: Black Tile	Chrysotile	5 %
Layer: Black Mastic	Chrysotile	5 %
Total Composite Values of Fibrous Components: Asbestos (5%)		
Cellulose (Trace)		

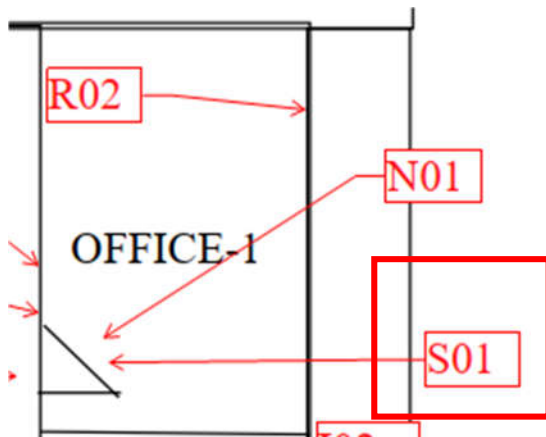
Asbestos Summary for Building 1, Showing Homogenous ID "S"

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBARD CATEGORY	ESTIMATED QUANTITY
S	Vinyl Floor Tile/Mastic	Unknown Black/Black	Throughout Under Other Floor Coverings Such As Carpet/Mastic And Other Floor Tiles. This Material Is Adhered To A Wood Subfloor.	Class II	Category I - Non-Friable	3,100 SF

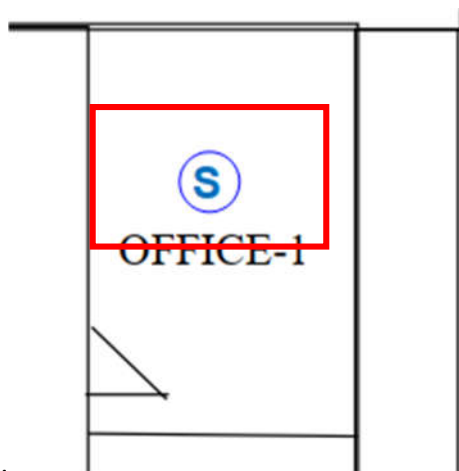
Sample Location Drawing for Building 1 –

Tag (A01) Combines Homogeneous ID (S) and Sample # (01)



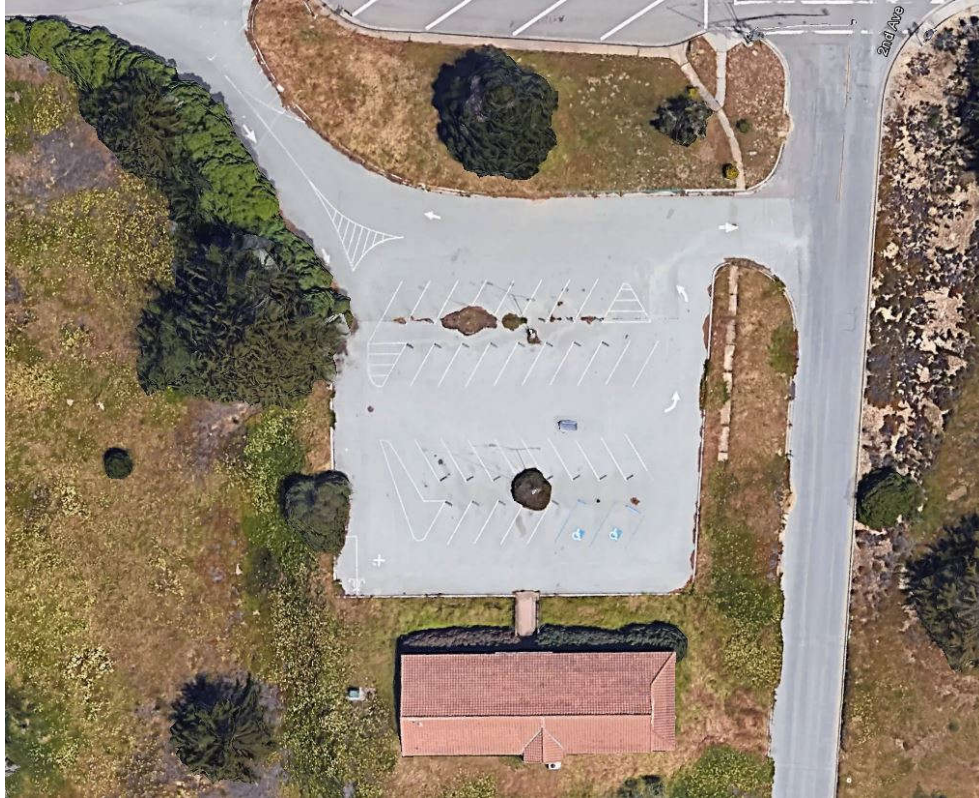
Material Location Drawing for Building 1

Bubble identifies location of Homogeneous Material by ID # (S)



APPENDIX A
AREA DATA

AREA 1



The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

MBARD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. MBARD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

AREA 1: BUILDING AND HARDSCAPE HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBARD CATEGORY	ESTIMATED QUANTITY
S	Vinyl Floor Tile/Mastic	Unknown Black/Black	Throughout Under Other Floor Coverings Such As Carpet/Mastic And Other Floor Tiles. This Material Is Adhered To A Wood Subfloor.	Class II	Category I - Non-Friable	3,100 SF

Subsurface asbestos cement and tar wrapped piping is assumed throughout the area.

Lead Paint and Materials

ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	PB	UNITS
Outside	Wall	Wood	Beige	Intact	18.6	mg/cm²
Inside	Door	Wood	Brown	Intact	0.05	mg/cm ²
Inside	Window Sill	Wood	Brown	Intact	0.01	mg/cm ²
Inside	Shelf	Wood	Brown	Intact	0.1	mg/cm ²
Outside	Curb	Concrete	Blue	Deteriorated	1.3	mg/cm²
Outside	Curb	Concrete	Green	Deteriorated	0.14	mg/cm ²
Outside	Curb	Concrete	Red	Deteriorated	0.4	mg/cm ²
Outside	Curb	Asphalt	Red	Deteriorated	0.01	mg/cm ²

Bold = Lead-based

Lead Waste Characterization Estimate

SAMPLE #	DESCRIPTION	LOCATION	RESULT	UNITS
1-PBW-01	Roofing 66%, Stucco 12%, Wood Unpainted 11%, Wallboard/Ceiling Tiles 7%, Wood Painted 5%, by Weight	Interior and Exterior	20	mg/kg

The sample results was below the Title 22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes TTLC level.

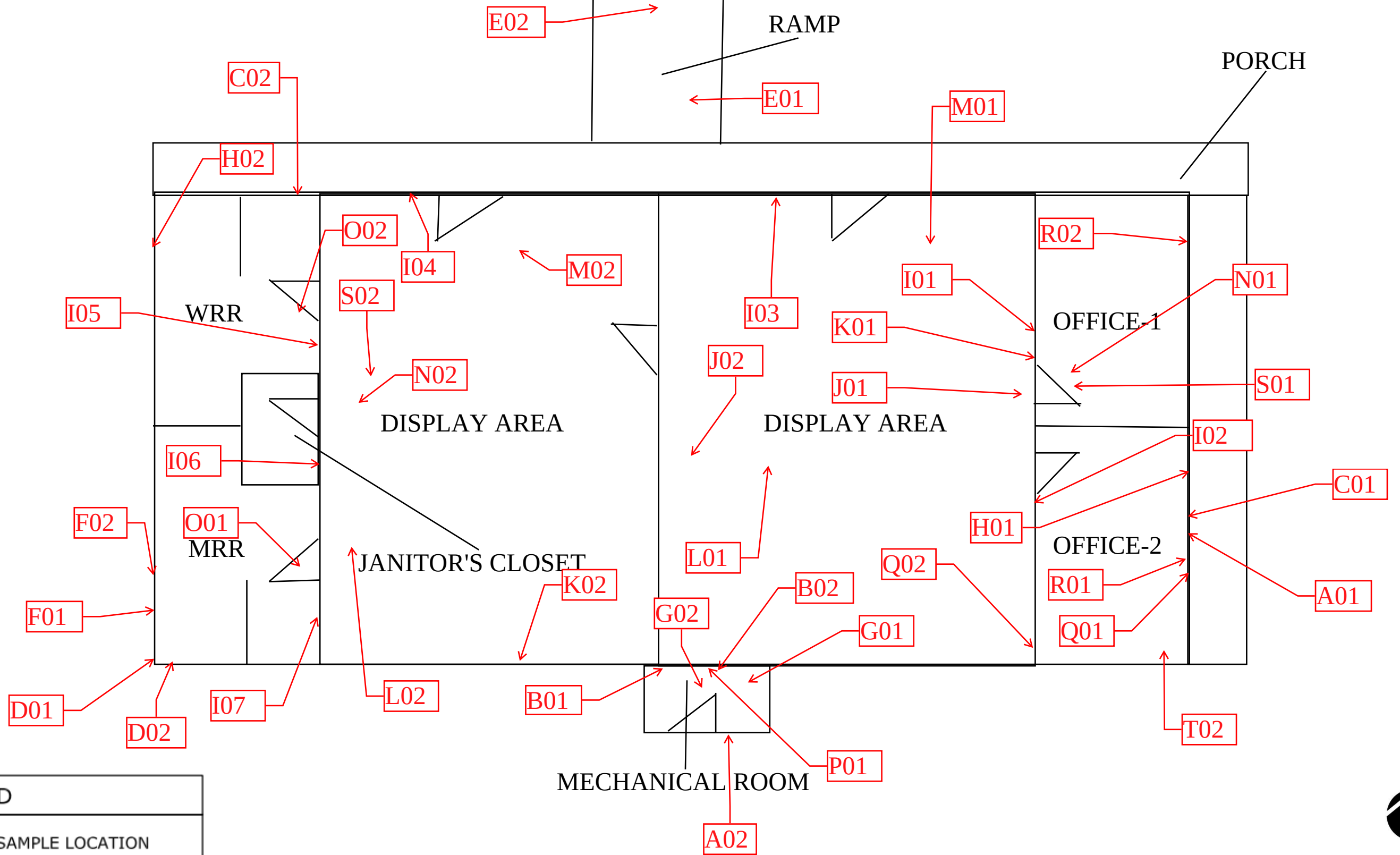
AREA 1: BUILDING AND HARDSCAPE HAZARDOUS MATERIALS SUMMARY

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	96
Other Non-Incandescent Lamps	Universal Waste	3
Light Fixture Ballasts	Polychlorinated Biphenyls or E-Waste	48
Refrigerator	Ozone Depleting Chemicals	1
HVAC	Ozone Depleting Chemicals	1

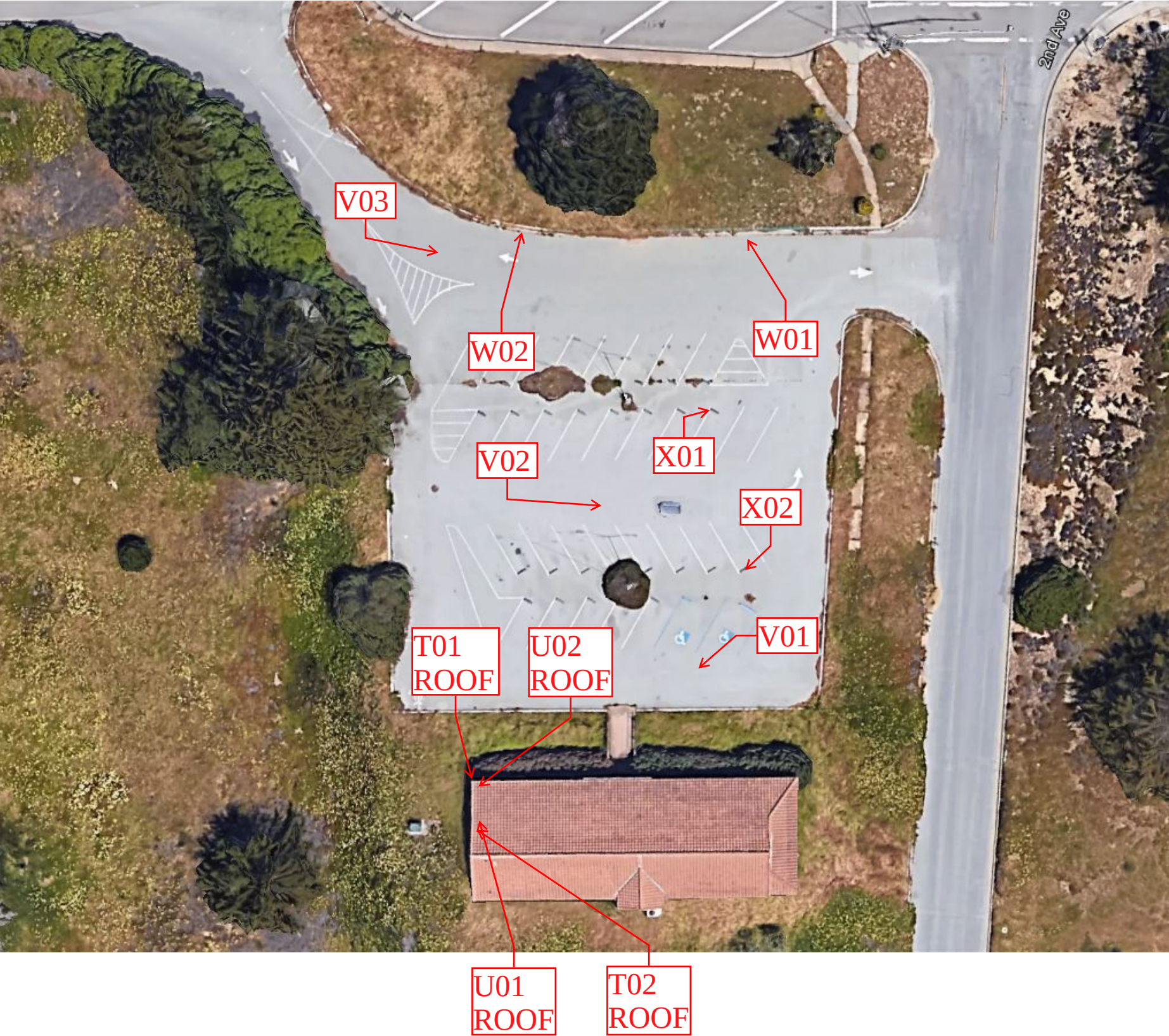
AREA 1: BUILDING AND HARDSCAPE ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint/Stucco/Vapor Barrier	Beige/Gray/Black, Exterior	2
B	Paint	Beige, Wood, Behind Stucco	2
C	Paint	Brown, Window Frames	2
D	Vapor Barrier	Black, Window Frames Behind Stucco	2
E	Coating	Brown, Ramp	2
F	Sealant	Black, Window Frames Behind Stucco	2
G	Flex Connector	Black, HVAC	2
H	Wallboard/Joint Compound	White/White, Textured	2
I	Texture Coat	White, Small	7
J	Vinyl Floor Tile/Mastic	12" Off-White/Black	2
K	Mastic	Yellow & Brown, Wainscot	2
L	Acoustic Ceiling Panel	2' x 4' White, Fissured	2
M	Mastic	Brown, Cabinet Top	2
N	Mastic	Yellow, Carpet	2
O	Vinyl Floor Tile/Mastic	12" Beige/Black	2
P	Insulation Board	Brown, Electric Switch Box	1
Q	Wallboard/Joint Compound	White/White	2
R	Wallboard	White, Perimeter Walls	2
S	Vinyl Floor Tile/Mastic	Unknown Black/Black	2
T	Underlayment	Black, Under Clay Tile Roof	2
U	Lightweight Concrete	Gray, Roof	2



LEGEND

-ASBESTOS SAMPLE LOCATION



LEGEND	
	-ASBESTOS SAMPLE LOCATION



VISTA ENVIRONMENTAL
CONSULTING

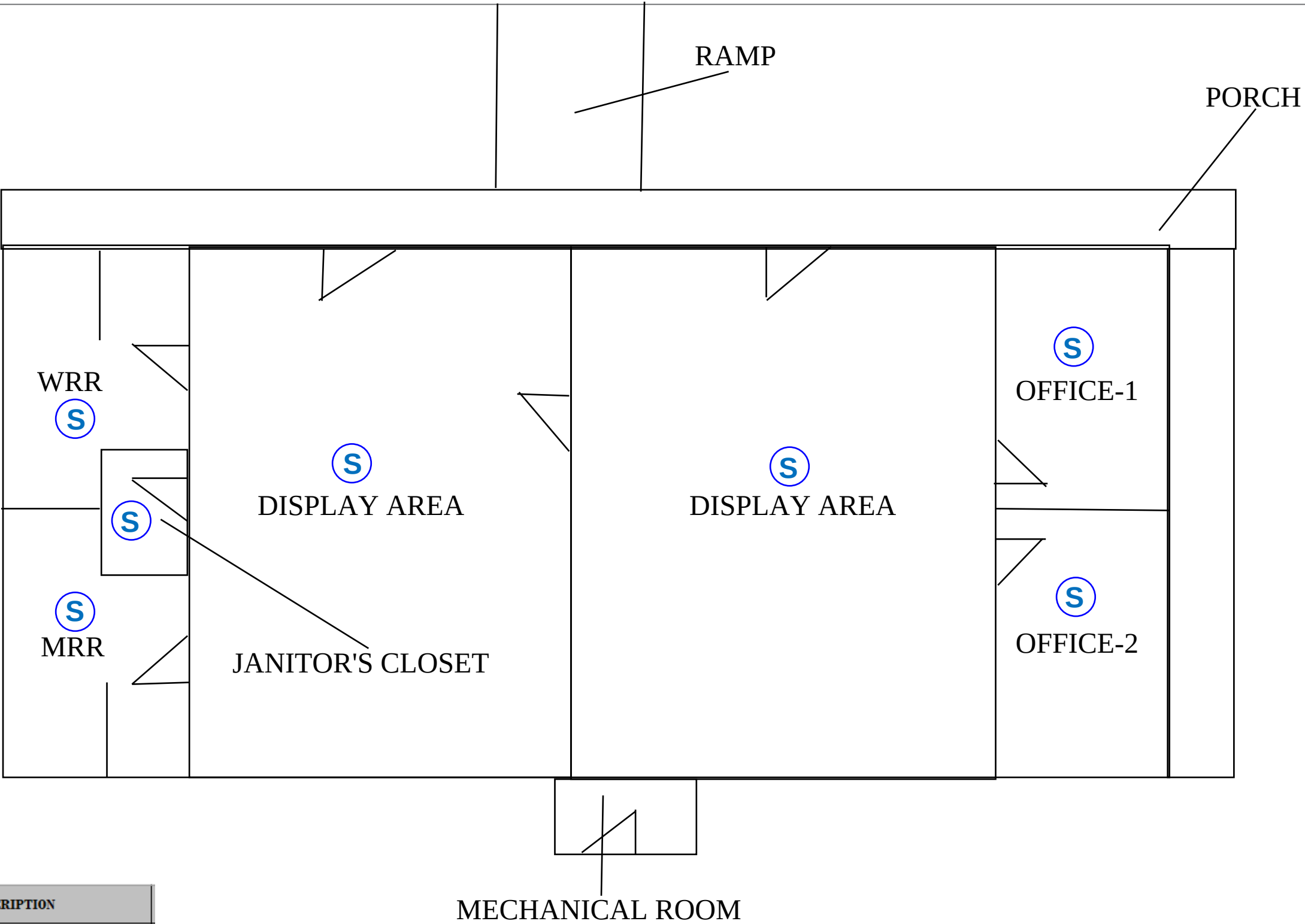
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE
CITY OF SEASIDE
FORMER FORT ORD - PHASE I

SHEET TITLE
AREA 1: HARDSCAPE AND ROOF
ASBESTOS SAMPLING LOCATIONS

SCALE:
DRAWN BY:
CHECKED BY:
PROJECT No.
DATE:
DRAWING No.

FIGURE
2



LEGEND

HOMO. ID	MATERIAL	DESCRIPTION
S	Vinyl Floor Tile/Mastic	Unknown Black/Black





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SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

CITY OF SEASIDE
FORMER FORT ORD - PHASE I

SHEET TITLE

AREA 1: BUILDING
ASBESTOS MATERIAL LOCATIONS

SCALE:
DRAWN BY:
CHECKED BY:
PROJECT No.
DATE:
DRAWING No.

FIGURE

3

AREA 1: BUILDING AND HARDSCAPE PHOTO DOCUMENTATION



S - Asbestos Black Floor Tile & Mastic (2nd Layer)



Lead-Based Paint on Wood Siding

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B316999
Date Received: 04/23/21
Date Analyzed: 04/26/21
Date Printed: 04/26/21
First Reported: 04/26/21

Job ID/Site: 211283001 - City of Seaside, Seaside (Building-1)

SGSFL Job ID: L1161
Total Samples Submitted: 46
Total Samples Analyzed: 46

Date(s) Collected: 04/21/2021

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1-A-01	12414050						
Layer: Black/White Fibrous Material			ND				
Layer: White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
1-A-02	12414051						
Layer: Black/White Fibrous Material			ND				
Layer: White Cementitious Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %)							
1-B-01	12414052						
Layer: Beige Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-B-02	12414053						
Layer: Beige Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-C-01	12414054						
Layer: Brown Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-C-02	12414055						
Layer: Brown Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-D-01	12414056						
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							

Client Name: Vista Environmental Consultants

Report Number: B316999

Date Printed: 04/26/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1-D-02	12414057						
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							
1-E-01	12414058						
Layer: Brown Coating			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-E-02	12414059						
Layer: Brown Coating			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-F-01	12414060						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-F-02	12414061						
Layer: Black Non-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-G-01	12414062						
Layer: Black Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (60 %)							
1-G-02	12414063						
Layer: Black Semi-Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace) Fibrous Glass (60 %)							
1-H-01	12414064						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
1-H-02	12414065						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							

Client Name: Vista Environmental Consultants**Report Number:** B316999**Date Printed:** 04/26/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1-I-01	12414066						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-I-02	12414067						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-I-03	12414068						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-I-04	12414069						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-I-05	12414070						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-I-06	12414071						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-I-07	12414072						
Layer: White Texture			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-J-01	12414073						
Layer: Off-White Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Vista Environmental Consultants**Report Number:** B316999**Date Printed:** 04/26/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1-J-02	12414074						
Layer: Off-White Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-K-01	12414075						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-K-02	12414076						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-L-01	12414077						
Layer: White Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
1-L-02	12414078						
Layer: White Fibrous Material			ND				
Layer: Paint			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (35 %) Fibrous Glass (45 %)							
1-M-01	12414079						
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-M-02	12414080						
Layer: Brown Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-N-01	12414081						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-N-02	12414082						
Layer: Yellow Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B316999

Date Printed: 04/26/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1-O-01	12414083						
Layer: Beige Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-O-02	12414084						
Layer: Beige Tile			ND				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-P-01	12414085						
Layer: Grey Fibrous Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (70 %) Synthetic (25 %)							
1-Q-01	12414086						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
1-Q-02	12414087						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
1-R-01	12414088						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
1-R-02	12414089						
Layer: White Drywall			ND				
Layer: White Joint Compound			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (20 %) Fibrous Glass (10 %)							
1-S-01	12414090						
Layer: Black Tile		Chrysotile	5 %				
Layer: Black Mastic		Chrysotile	5 %				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B316999

Date Printed: 04/26/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1-S-02	12414091						
Layer: Black Tile		Chrysotile	5 %				
Layer: Black Mastic			ND				
Total Composite Values of Fibrous Components:		Asbestos (5%)					
Cellulose (Trace)							
1-T-01	12414092						
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							
1-T-02	12414093						
Layer: Black Felt			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (90 %)							
1-U-01	12414094						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-U-02	12414095						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: City of Seaside

DATE: 04/21/21

LOCATION: Seaside (BUILDING-1)

PROJECT NUMBER: 211283001

SAMPLED BY: JR

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1	A	01	PAINT/STUCCO/VAPOR BARRIER	BEIGE/BLACK, EXTERIOR		
1	A	02	↓	↓	↓	
1	B	01	PAINT	BEIGE	BEHIND STUCCO	
1	B	02	↓	↓	↓	
1	C	01	PAINT	BROWN	WINDOW FRAMES	
1	C	02	↓	↓	↓	
1	D	01	VAPOR BARRIER	BLACK	WINDOW FRAMES BEHIND STUCCO	
1	D	02	↓	↓	↓	
1	E	01	COATING	BROWN	RAMP	
1	E	02	↓	↓	↓	

ANALYTICAL METHOD: PLM ~~400-PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com
Questions call: Office 510.346.8860 Cell 925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Javier Rocha
TRANSFER SIGNATURE

2. Cym
TRANSFER SIGNATURE

3. _____
TRANSFER SIGNATURE

PAGE 1 OF 5

JAVIER ROCHA 04/21/21 1:500
PRINTED NAME DATE/TIME
D/O 1245
PRINTED NAME DATE/TIME
PRINTED NAME DATE/TIME

RECEIVED
APR 23 REC'D



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: City of Seaside

DATE: 04/21/21

LOCATION: Seaside

(BUILDING - 1)

PROJECT NUMBER: 211283001

SAMPLED BY: JR

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
<u>1</u>	<u>F</u>	<u>01</u>	<u>SEALANT</u>	<u>BLACK</u>	<u>WINDOW FRAMES BEHIND SKID</u>	
<u>1</u>	<u>F</u>	<u>02</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>1</u>	<u>G</u>	<u>01</u>	<u>FLEX CONNECTOR</u>	<u>BLACK</u>	<u>HVAC</u>	
<u>1</u>	<u>G</u>	<u>02</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>1</u>	<u>H</u>	<u>01</u>	<u>WB/UC</u>	<u>WHITE/WHITE,</u>	<u>TEXTURED</u>	
<u>1</u>	<u>H</u>	<u>02</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>1</u>	<u>I</u>	<u>01</u>	<u>TEXTURE COAT</u>	<u>WHITE, SMALL</u>	<u>W & C</u>	
<u>1</u>	<u>I</u>	<u>02</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>1</u>	<u>F</u>	<u>03</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	
<u>1</u>	<u>I</u>	<u>04</u>	<u>↓</u>	<u>↓</u>	<u>↓</u>	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

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PAGE 2 OF 5

LUIS J. ROCHA 04/21/21 - 1500
PRINTED NAME DATE/TIME
D/O APR 23 REC'D 1245
PRINTED NAME DATE/TIME
PRINTED NAME DATE/TIME



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: City of Seaside

DATE: 04/21/21

LOCATION: Seaside (BUILDING-1)

PROJECT NUMBER: 211283001

SAMPLED BY: JR

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
L	I	05				
1	I	06				
1	I	07				
1	J	01	VET/MAS	12" OFF WHITE/BLACK		
1	J	02				
1	K	01	MASTIC	YELLOW & BROWN	WATSCOT	
1	K	02				
1	L	01	ACP	2'x4' WHITE, FISSED		
1	L	02				
1	M	01	MASTIC	BROWN	FORNICA TOP	

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

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PAGE 3 OF 5

Luis J. Rocha 04/21/21-1500
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D/O APR 23 REC'D 1245
PRINTED NAME DATE/TIME
PRINTED NAME DATE/TIME



2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: City of Seaside

DATE: 04/21/21

LOCATION: Seaside (BUILDING-1)

PROJECT NUMBER: 211283001

SAMPLED BY: JR

CAC OR SST No: 02-3294

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1	M	02	↓	↓	↓	
1	N	01	MASTIC	YELLOW	CARPET	
1	N	02	↓	↓	↓	
1	O	01	VFT/MAS	12" BELT/BUNK		
1	O	02	↓	↓		
1	P	01	INSULATION BOARD	BROWN	ELECTRICAL SWITCH BOX	
1	Q	01	VFT/MAS	WHITE/WHITE		
1	Q	02	↓	↓	↓	
1	R	01	WALLBOARD	WHITE	PERIMETER WALLS	
1	R	02	↓	↓	↓	

ANALYTICAL METHOD: PLM 400 PFCOUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

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PAGE 4 OF 5

LUIS J. ROCHA 04/21/21 / 1500
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D/O 1245
PRINTED NAME DATE/TIME
APR 23 REC'D
PRINTED NAME DATE/TIME



VISTA ENVIRONMENTAL
CONSULTING

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

ASBESTOS BULK SAMPLE LOG

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: City of Seaside

DATE: 04/21/21

LOCATION: Seaside (BUILDING - 1)

PROJECT NUMBER: 211283001

SAMPLED BY: JR

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1	S	01	VFT/MAS	UNKNOWN BLACK/BLACK	UNDER VFT CARPET.	
1	S	02	↓	↓	↓	
1	T	01	UNDER- LAYMENT	BLACK	UNDER CLAY TILES ROOF	
1	T	02	↓	↓	↓	
1	U	01	LIGHT WEIGHT CONCRETE	GRAY	ROOF	
1	U	02	↓	↓	↓	

46 SAMPLES

ANALYTICAL METHOD: PLM 400 ~~PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY

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PAGE 5 OF 5

LUIS J. ROCHA 04/21/21/1500

PRINTED NAME

DATE/TIME

D/O
PRINTED NAME

1245
DATE/TIME

PRINTED NAME

DATE/TIME

Bulk Asbestos Analysis

(EPA Method 40CFR, Part 763, Appendix E to Subpart E and EPA 600/R-93-116, Visual Area Estimation)
NVLAP Lab Code: 101459-0

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B317330
Date Received: 04/30/21
Date Analyzed: 05/03/21
Date Printed: 05/03/21
First Reported: 05/03/21

Job ID/Site: 211283001 - City of Seaside, Seaside (Bldg.1)-Parking Lot

SGSFL Job ID: L1161
Total Samples Submitted: 7
Total Samples Analyzed: 7

Date(s) Collected: 04/28/2021

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1-V-01	12417114						
Layer: Black Cementitious Tar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-V-02	12417115						
Layer: Black Cementitious Tar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-V-03	12417116						
Layer: Black Cementitious Tar			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-W-01	12417117						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-W-02	12417118						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-X-01	12417119						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							
1-X-02	12417120						
Layer: Grey Cementitious Material			ND				
Total Composite Values of Fibrous Components:		Asbestos (ND)					
Cellulose (Trace)							

Client Name: Vista Environmental Consultants

Report Number: B317330

Date Printed: 05/03/21

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
-----------	------------	------------------	---------------------	------------------	---------------------	------------------	---------------------



Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL
CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: City of Seaside

DATE: 04/28/21

LOCATION: Seaside (BUILDING-1)

PROJECT NUMBER: 211283001

SAMPLED BY: SR PARKING LOT

CAC OR SST No: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
1	V	01	ASPHALT	BLACK	PARKING LOT	
1	V	02	↓	↓	↓	
1	V	03	↓	↓	↓	
1	W	01	CONCRETE	GRAY	PARKING LOT CURB	
1	W	02	↓	↓	↓	
1	X	01	CONCRETE	GRAY	PARKING CURB	
1	X	02	↓	↓	↓	
7 SAMPLES						

ANALYTICAL METHOD: PLM 400 PTCOUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO:

Christopher Burns Via E-Mail: chrisburns@vista-env.com
Questions call: Office_510.346.8860 Cell_925.348.5361

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY

1. [Signature]
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2. [Signature]
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PAGE 1 OF 1

LUIS J. ROCHA 04/28/21 - 1700
PRINTED NAME DATE/TIME
D/O
PRINTED NAME DATE/TIME
[Signature]
PRINTED NAME DATE/TIME

RECEIVED
APR 30 REC'D

**City of Seaside
Area 1
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
1			SHUTTER_CAL					1.91	cps
2			CALIBRATE				Positive	1.1	mg/cm ²
3			CALIBRATE				Positive	1	mg/cm ²
4			CALIBRATE				Positive	1.1	mg/cm ²
5	1	OUTSIDE	WALL	PLASTER	BEIGE	INTACT	Negative	0	mg/cm ²
6	1	OUTSIDE	WINDOW FRAME	WOOD	BROWN	INTACT	Negative	0	mg/cm ²
7	1	OUTSIDE	COLUMN	WOOD	BROWN	INTACT	Negative	0	mg/cm ²
8	1	OUTSIDE	FLOOR	WOOD	BROWN, LIGHT	INTACT	Negative	0	mg/cm ²
9	1	OUTSIDE	DOOR FRAME	WOOD	BROWN	INTACT	Negative	0	mg/cm ²
10	1	OUTSIDE	DOOR	WOOD	BROWN	INTACT	Negative	0	mg/cm ²
11	1	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Positive	18.6	mg/cm ²
12	1	INSIDE	WALL	DRYWALL	WHITE	INTACT	Negative	0	mg/cm ²
13	1	INSIDE	WAINSCOT	WOOD	BROWN	INTACT	Negative	0	mg/cm ²
14	1	INSIDE	DOOR	WOOD	BROWN	INTACT	Negative	0.05	mg/cm ²
15	1	INSIDE	DOOR FRAME	WOOD	BROWN	INTACT	Negative	0	mg/cm ²
16	1	INSIDE	CABINET	WOOD	BLUE	INTACT	Negative	0	mg/cm ²
17	1	INSIDE	CABINET	WOOD	WHITE	INTACT	Negative	0	mg/cm ²
18	1	INSIDE	WINDOW SILL	WOOD	BROWN	INTACT	Negative	0.01	mg/cm ²
19	1	INSIDE	SHELF	WOOD	BROWN	INTACT	Negative	0.1	mg/cm ²
20	1	INSIDE	FLOOR	VINYL	WHITE	INTACT	Negative	0	mg/cm ²
21	1	INSIDE	FLOOR	VINYL	BEIGE	INTACT	Negative	0	mg/cm ²
22	1	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm ²
41			CALIBRATE				Positive	1.1	mg/cm ²
42			CALIBRATE				Positive	1.1	mg/cm ²
43			CALIBRATE				Positive	1.1	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

**City of Seaside
Area 1
XRF Sequential Report**

READING NO.	BUILDING	ROOM	COMPONENT	SUBSTRATE	COLOR	CONDITION	RESULTS	PbC	UNITS
250			SHUTTER_CAL					2.06	cps
251			CALIBRATE				Positive	1	mg/cm ²
252			CALIBRATE				Positive	1.2	mg/cm ²
253			CALIBRATE				Positive	1.2	mg/cm ²
282	1	OUTSIDE	CURB	CONCRETE	BLUE	DETERIORATED	Positive	1.3	mg/cm ²
283	1	OUTSIDE	CURB	CONCRETE	GREEN	DETERIORATED	Negative	0.14	mg/cm ²
284	1	OUTSIDE	CURB	CONCRETE	RED	DETERIORATED	Negative	0.4	mg/cm ²
285	1	OUTSIDE	FLOOR STRIPE	ASPHALT	WHITE	DETERIORATED	Negative	0	mg/cm ²
286	1	OUTSIDE	FLOOR STRIPE	ASPHALT	BLUE	DETERIORATED	Negative	0	mg/cm ²
287	1	OUTSIDE	CURB	ASPHALT	RED	DETERIORATED	Negative	0.01	mg/cm ²
288			CALIBRATE				Positive	1.1	mg/cm ²
289			CALIBRATE				Positive	1.1	mg/cm ²
290			CALIBRATE				Positive	1.3	mg/cm ²

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

Metals Analysis of Bulks - TTLC

(AIHA-LAP, LLC Accreditation, Lab ID #101762)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: M233609
Date Received: 05/03/21
Date Analyzed: 05/04/21
Date Printed: 05/04/21
First Reported: 05/04/21

Job ID / Site: 211283001 - City of Seaside- Former Fort Ord, 1
Date(s) Collected: 04/30/21

SGSFL Job ID: L1161
Total Samples Submitted: 1
Total Samples Analyzed: 1

Sample Number	Lab Number	Analyte	Result	Result Units	Reporting Limit*	Method Reference
1-PBW-01	30887938	Pb	20	mg/kg	7	EPA 3050B/7000B

* The Reporting Limit represents the lowest amount of analyte that the laboratory can confidently detect in the sample, and is not a regulatory level. The Units for the Reporting Limit are the same as the Units for the Final Results.



Kevin Poon, Laboratory Analyst, Hayward Laboratory

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Note* Sampling data used in this report was provided by the client as noted on the associated chain of custody form.



Client Name & Address: Vista Environmental Consulting, Inc. 2984 Teagarden Street San Leandro, CA 94577		PO / Job#: 211283001		Date: 4/30/21			
		Turn Around Time: Same Day / <u>1 Day</u> / 2Day / 3Day / 4Day / 5Day		CPE			
		☐ PCM: ☐ NIOSH 7400A / ☐ NIOSH 7400B ☐ Rotometer					
		☐ PLM: ☐ Standard / ☐ Point Count 400 - 1000 / ☐ CARB 435					
Contact: Chris Burns		☐ TEM Air: ☐ AHERA / ☐ Yamate2 / ☐ NIOSH 7402 ☐ TEM Bulk: ☐ Quantitative / ☐ Qualitative / ☐ Chatfield ☐ TEM Water: ☐ Potable / ☐ Non-Potable / ☐ Weight % ☐ TEM Microvac: ☐ Qual(+/-) / ☐ D5755(str/area) / ☐ D5756(str/mass)					
Phone: (510) 346-8860	Fax: (888) 296-0271	☐ IAQ Particle Identification (PLM LAB) ☐ PLM Opaques/Soot ☐ Particle Identification (TEM LAB) ☐ Special Project					
E-mail: chrisburns@vista-env.com & molli@vista-env.com		☒ Metals Analysis: Method: Waste TTLC					
Site: City of Seaside - Former Fort Ord		Matrix: Solid					
Site Location: 1		Analytes: PB					
Comments: Hold for Possible STLC & TCLP 1 Sample made up of 5 subsamples at 90 by wt below				Report Via: ☐ Fax ☐ E-Mail ☐ Verbal			
Sample ID	Date / Time	Sample Location / Description	FOR AIR SAMPLES ONLY				Sample Area / Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
1-PBW-01	4/30/21	Roofing 66%, Stucco 12%, Wood Unpainted 11%, Wallboard/ACP 7%, Wood Painted 5% (Subsamples)	A P C				
			A P C				
			A P C				
			A P C				
		1 Sample	A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
			A P C				
Sampled By: Chris Burns		Date: 4/30/21		Time: 0730			
Shipped Via: ☐ Fed Ex ☐ DHL ☐ UPS ☐ US Mail ☐ Courier ☒ Drop Off ☐ Other:							
Relinquished By: [Signature]		Relinquished By: [Signature]		Relinquished By: [Signature]			
Date / Time: 4/30/21, 1200		Date / Time: [Signature]		Date / Time: [Signature]			
Received By: [Signature]		Received By: [Signature]		Received By: [Signature]			
Date / Time: 5/3/21 1050		Date / Time: [Signature]		Date / Time: [Signature]			
Condition Acceptable? ☒ Yes ☐ No		Condition Acceptable? ☐ Yes ☐ No		Condition Acceptable? ☐ Yes ☐ No			



ADDENDUM No.1

For the project

Fort Ord Military Reservation Property Deconstruction and Demolition Project Phase 1A Project May 11, 2022

Addendum No. 1 is being issued for revisions to Related Documents submittal to define the changes and provide clarifications related to the reports in association with the Fort Ord Military Reservation Property Deconstruction and Demolition Project Phase 1A Project Bid.

The revisions declared in this addendum are an essential element to the contract documents. The contract documents to be executed will contain a copy of this addendum.

REVISIONS

Make the following revisions to Soil Sampling Report and Soil Remediation Work Plan Former Fort Ord - Phase 1A

REMOVE Soil Sampling Report and Soil Remediation Work Plan Former Fort Ord - Phase 1A dated March 4, 2022 in its entirety and **REPLACE** with the attached May 6, 2022 Soil Sampling Report and Soil Remediation Work Plan Former Fort Ord - Phase 1A.

Make the following revisions to Document 00 4113-3 Bid Form

REMOVE Document 00 4113 in its entirety and **REPLACE** with the attached May 11, 2022 Document 00 4113.

CLARIFICATIONS

1. Additional details to the subject site history and 2021 soil sampling completed by Vista Environmental is further outlined in the updated document.
2. Boundaries for the excavation area are conveyed in Figures as well as defining locations for previous soil sampling on site by date and background sampling efforts completed in 2021.
3. Confirmatory sampling is defined by grid sampling after the proposed 2-foot excavation. Additional Figure is documented to show sampling area for contractor

understanding. There will be no further excavation after the initial 2-foot excavation and completion of the confirmatory samples. After receipt of results for the confirmatory samples, the excavation area will be sloped for safety precautions. If detections of constituents of concern come back elevated, internal City discussions will commence.

4. Soil Remediation Workplan outlines steps for contractor and environmental consultant to complete during excavation, survey, sampling and transport and disposal of soil from the project site.
5. Work is complete upon results of soil analytical testing completed by the City's environmental consultant and excavated area is properly sloped.
6. Bid Form is updated to remove additional 1-foot undefined over excavation and to include section for transport and disposal of stockpiled soil.
7. It is acceptable for a licensed contractor with a Class A - General Engineering license and Hazardous Substance Removal Certification and Class C-21 Building Moving/Demolition Contractor to bid the subject project as a prime contractor as long as they subcontract asbestos abatement to a Class C-22 Asbestos Abatement Contractor.

Contractors who do not hold the C-22 classification or the §7058.5 asbestos certification and DOSH registration may bid on projects that include asbestos abatement work as long as they subcontract with and the work is performed by an asbestos abatement contractor who is duly licensed to perform such work.

If you are a bidder, you must acknowledge receiving this Addendum by reviewing Soil Sampling Report and Soil Remediation Work Plan Former Fort Ord - Phase 1A and submitting the completed Document 00 4113 of the bid form with the bid. Submit bids for this work with the understanding and full compensation of this addendum. If there are any questions regarding this addendum, please contact Nisha Patel at (831) 899 - 6884. Sincerely,



Nisha Patel
Public Works Director/City Engineer

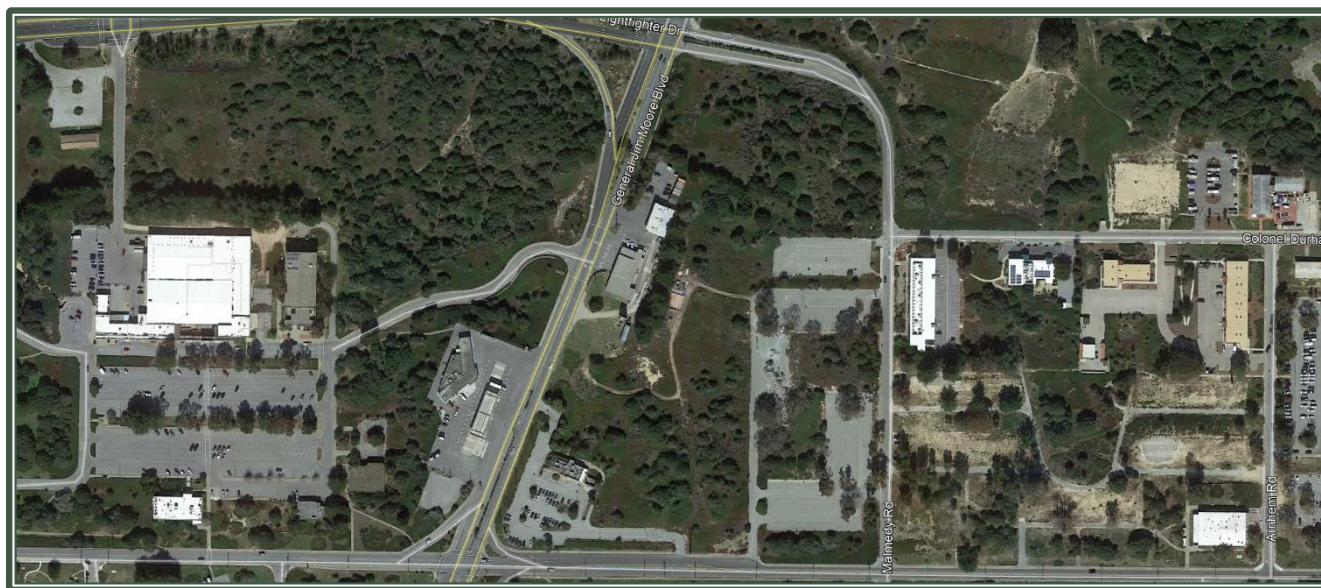


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Soil Sampling Report and Soil Remediation Work Plan
Campus Town Development - Phase 1A
Seaside, California



Prepared for:



440 Harcourt Ave.
Seaside, CA 93955

Prepared By:

Vista Environmental Consulting 2984
Teagarden Street
San Leandro, CA 94577

May 6, 2022 Project

No. 211283003

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2. ANALYTICAL LABORATORY REPORTS

Section 1.0 INTRODUCTION

Vista Environmental Consulting, Inc. (Vista) has prepared this Soil Sampling Report and Soil Remediation Work Plan (Report and Work Plan) on behalf of the City of Seaside (Owner) conducted at the Phase 1A Development area, located within the larger Campus Town development project area, Seaside, California (the Site or Phase 1A, Figures 1 & 2). The Report and Work Plan presents the results of soil sampling and analysis conducted at the Site and describes a soil over-excavation work plan to address elevated concentrations of certain metals. The following sections present the work objectives, a description of field sampling activities and methodology, presentation of the analytical results, discussion of these results and a detailed description of soil removal and disposal activities. Included with this Report and Work Plan is a summary of data collected by Engeo, Inc., that was memorialized in their *Phase II Environmental Site Assessment, Surplus II Areas – Fort Ord, Seaside, California*, June 16, 2017 (Engeo 2017), prepared on behalf of KB Home Bay Area Division (Appendix 1).

The Site was a part of former Fort Ord, a United States Army military base operational from 1917 to 1994. Subsequent to base closure, base-wide environmental investigations were conducted, resulting in the preparation of the *Remedial Action Summary Report, Fort Ord, California*, prepared by the United States Army Corps of Engineers, Sacramento District (June 2020). Based on the base-wide environmental investigation, the Remedial Action Summary Report placed the Phase 1A area in the “No Action Sites” category, was not subject to a deed restriction and was further found to not be subject to a Finding of Suitability for Transfer (FOST) or Finding of Suitability for Early Transfer (FOSET).

Section 2.0 OBJECTIVE

The objective of this document is two-fold. First, present a summary of results of multiple soil sampling and analysis programs, including the Engeo 2017 data. Second, the results of the investigations at the Site will be used to define, then describe soil removal and soil disposal activities at the Site.

Section 3.0 METHODOLOGY

Vista performed soil sampling at the Site during four separate field efforts and are described below. Field methodology for Vista soil sampling is presented in Section 3.1. The Engeo sampling and analysis program employed during their 2017 Campus Town investigation is presented in Section 3.2. Vista field methodology is described in Section 3.3. Additional descriptions of Engeo’s work, including field methodology, can be found in the Engeo 2017 report (Appendix 1).

Section 3.1 Vista 2021 Field Investigation

April 29, 2021

Surface soil sampling was conducted around buildings and beneath hardscape located at the Site. Soil samples were collected at 0.5 feet below ground surface (bgs).

July 9, 2021

Shallow soil sampling was conducted around the building and beneath hardscape located at the Site. Soil samples were collected to a maximum depth of 2.0 feet bgs.

August 26, 2021

Shallow soil sampling was conducted around the building and beneath hardscape located at the Site. Soil samples were collected to a maximum depth of 7.0 feet bgs. Background soil samples were collected from three locations away from historic Fort Ord buildings but within the larger development project area. Background soil samples were collected at 0.5, 1.0, 1.5 and 2.0 feet bgs.

December 2, 2021

Shallow soil sampling was conducted in 4 discrete areas around the larger former Fort Ord property currently owned by the City of Seaside. The objective of the sampling was to collect soil samples in previously undisturbed areas to check for the presence of naturally occurring arsenic. The goal of this work was to generate a data set of background samples for comparison to Site concentrations of arsenic. The comparison would allow conclusions to be drawn concerning Site concentrations of arsenic versus off Site concentrations and whether on Site concentrations were due to historic Army activities at the Site.

Tables 1 and 2 presents the 2021 Vista soil data and the 2017 Engeo data. Figure 2 depict Vista sampling locations. The historic Fort Ord building number has been added to the figure and tables for reference.

Section 3.2 Engeo 2017 Field Investigation

As referenced above, Engeo performed a Phase II Environmental Site Investigation in May 2017 (Attachment 1). During this investigation Engeo performed the following work both at the Site and throughout the larger Campus Town development area:

Soil Sampling Around Buildings

Engeo collected 134 soil grab samples at 0.5 feet bgs around the perimeter of 36 existing buildings. Soil samples were collected from either 3 or 4 sides of each building, depending on access and whether hardscape was present at the building edge. Discrete soil samples from around each building were composited into one sample and analyzed for:

- Arsenic and lead by USEPA Method 6020B; and
- Organochlorine pesticides by USEPA Method 8081A.

Soil Vapor Sampling

Installed 10 temporary soil gas monitoring wells for the collection of soil gas samples. Soil gas monitoring wells were installed around the three former USTs, two at each UST location and an additional four temporary soil gas monitoring well were installed in areas distributed throughout the investigation area. Soil gas samples were analyzed for:

- TPHg and VOCs by USEPA Method TO-15.

The Engeo 2017 soil sampling results from samples collected around the building at the Site are presented in Tables 1 and 2 of this report. The comprehensive Engeo 2017 soil and soil gas sampling results are presented in Engeo Tables B and C. Engeo 2017 sampling locations are depicted on Figure 2 and descriptions of Engeo's field methodology are included in Appendix 1.

Section 3.3 Field Methodology

Presented below is a description of the work conducted at the Site by Vista including:

- Descriptions of soil boring and sampling procedures;
- Soil sample compositing scheme; and
- A listing of the analytical laboratory testing methods conducted on soil samples.

Prior to conducting the investigation, Vista performed the following tasks:

1. Verified that a Monterey County Environmental Health Department permit was not necessary for soil borings to 7 feet bgs.
2. Contracted with Cascade Drilling of Richmond, California, a C-57 licensed drilling company, to perform the drilling work on August 26, 2021.
3. Coordinated access notifications with the City of Seaside.

Two soil boring methodologies were utilized at the Site to collect soil samples: a hand auger; and a hydraulically powered direct push drill rig.

Hand Auger

A hand auger is a manually operated, 3.25-inch diameter core drill that generates a soil core which can be observed, logged and/or sampled after the auger is removed from the borehole. The hand auger was used as the only means of soil boring during the April 29, July 9 and December 2, 2021 sampling efforts. A combination of hand auger and direct push drilling (described below) was used for soil boring advancement on August 26, 2021.

Prior to use at each boring location, the hand auger was decontaminated using a combination of water andalconox (laboratory grade cleaning detergent), a scrub brush followed by a water rinse. All decontamination water was mixed with the neat cement grout used to seal the boreholes.

Overlying vegetation and hardscape were removed wherever present at borehole locations. For sampling areas overlain by hardscape (asphalt), ground surface was defined by the contact between native soil and any baserock material placed on top of native soil and beneath the asphalt surface layer.

During augering, generated soil core was checked by Vista personnel for the presence of visual or olfactory evidence of contamination. When the desired sampling depth was achieved, recovered soil core was placed in laboratory-supplied sample containers, labeled and placed in an ice-cooled chest to await delivery to the analytical laboratory under chain of custody procedure.

Any unused soil core was used to backfill the soil boring and was nominally compacted. In hardscape areas, asphalt cold patch was placed in the final 4 to 6-inches of the soil boring to repair the hardscape surface to match its original surface grade.

Hydraulically Powered Direct Push Drill Rig

A hydraulically powered direct push drill rig equipped with dual tube drive casing was used to advance soil borings to 8.0 feet bgs on August 26, 2021. The drilling subcontractor, Cascade Drilling from Richmond, California, supplied the drill rig, operator and driller's assistant. The drilling methodology entails hydraulically pushing a 3.25-inch diameter outer drive casing fitted with an internal 2.5-inch diameter core barrel in 4-foot increments. The internal core barrel is fitted with a 2-inch diameter, 4-foot-long acetate liner into which the soil core is collected.

At the end of each 4-foot run, the outer drive casing remained in place at the total depth of the current run and the inner core barrel was retracted and collected at the surface. This process prevents sloughing of soil from the borehole wall into the boring itself and further prevents cross-contamination of soil layers. Once at the surface, the core barrel was opened, and the inner acetate liner was removed and cut open for observation and sample collection. The core barrel was then fitted with a new acetate liner inserted prior to starting the next run. This process continued until the total desired depth was achieved. Vista field personnel observed recovered soil for visual or olfactory evidence of petroleum hydrocarbons. Any evidence of contamination was noted in the field logs.

Upon collection, the soil samples were uniquely labeled, placed in sealable bags, stored in an ice-filled chest and transported to Enthalpy Analytical, Inc. of Berkeley, California (Enthalpy), under chain-of-custody procedures. The soil samples were analyzed for some or all of the following analytes:

- Total petroleum hydrocarbons quantified as gasoline (TPHg) and volatile organic compounds by USEPA Method 8260B;
- TPH as diesel (TPHd) and TPH as motor oil (TPHmo) by USEPA Method 8015M
- Semi-volatile organic compounds by USEPA Method 8270C;
- Pesticides by USEPA Method 8081A;
- Poly-chlorinated biphenyls by USEPA Method 8082; and
- CAM 17 metals by USEPA Method 6000/7000 series.
- Hexavalent chromium by USEPA Method 7196A

At the completion of all sampling activities, borings were filled with neat cement grout from the total boring depth to ground surface, delivered via a tremie pipe. Soil cuttings were stored in a 55-gallon steel drum with a locking cover and placed within the parking lot at the Site pending analytical results for proper soil disposal.

Soil boring locations within the Site are depicted on Figure 2. Soil boring locations used to assess background arsenic concentrations are depicted on Figure 3.

Section 4.0 RESULTS

This section presents the results of the Vista investigations conducted in 2021 and the Engeo investigation conducted in 2017. Results from the investigations were compared to the following regulatory agency comparison criteria:

- USEPA Regional Screening Levels, Summary Table, Residential and Industrial Soil, May 2021 (RSLs); and
- Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, Table S-1, Soil Direct Exposure Human Health Risk Screening Levels, Residential Land Use, Shallow Soil Exposure Scenario and Commercial/Industrial Land Use, Shallow Soil Exposure, 2019, revision 2 (ESLs).

Section 4.1 Vista 2021 Investigation Results

For the four soil sampling events conducted by Vista in 2021 (April, July, August and December), all results were below residential RSLs and ESLs with the following exceptions:

1. Arsenic exceeded the residential RSL and ESL in all samples. Arsenic exceeded the commercial RSL in 1 of 12 samples.
2. Hexavalent chromium exceeded the residential RSL and ESL in 4 of 12 samples. Hexavalent chromium did not exceed the commercial RSL or ESL in all 12 samples.
3. Cobalt exceeded the residential RSL and ESL in 1 of 12 samples. Cobalt did not exceed the commercial RSL or ESL in all 12 samples.
4. Lead exceeded the residential RSL and ESL in 2 of 12 samples. Lead did not exceed the commercial RSL or ESL in all 12 samples

All laboratory analytical reports from the 4 Vista sampling efforts are included in Appendix 2.

Section 4.1.1 Vista Background Sampling Results

Vista background sampling conducted outside the area of investigation resulted in the following findings:

1. Background arsenic concentrations were commensurate with detected arsenic concentrations at the Site.
2. An arithmetic mean concentration of Site arsenic concentration is 1.2 mg/kg
3. An arithmetic mean concentration of background arsenic concentration is 1.6 mg/kg.
4. All Site and background soil samples were above the residential RSL and ESL for arsenic.

5. When the on-Site and off-Site data sets for arsenic are compared using the Wilcoxon Rank Sum test, a simple non-parametric statistical technique, the two data sets appear equal.
6. Cobalt background concentrations were commensurate with detected Site concentrations.
7. Hexavalent chromium was not detected in any background samples.
8. All other detected metals in background samples were below residential and commercial RSLs and ESLs.

Section 4.2 Engeo 2017 Investigation Results

This section presents the Engeo 2017 investigation results for samples collected at the Site. Note that at the time the Engeo report was written, the then current RSLs and ESLs were finalized in 2015 and 2016, respectively. For the purposes of this Report, the current RSLs and ESLs were used for comparison purposes.

Section 4.2.1 Engeo 2017 Investigation Results – Soil at Building Perimeter in the Phase 1A Area

For the soil sampling around the building perimeter in Phase 1A conducted by Engeo in May of 2017, results were as follows:

1. Arsenic exceeded the residential and commercial RSL ESL in the single soil sample.
2. Lead exceeded the residential RSL and ESL in the single soil sample. Lead did not exceed the commercial RSL or ESL in the same sample.
3. Pesticides did not exceed the residential and commercial RSLs or ESLs in the single soil sample.

Section 5.0 DISCUSSION AND RECOMMENDATIONS

This section will present a discussion of the Vista and Engeo results and provide recommendations based on the results.

Section 5.1 Arsenic in Soil

In order to better understand the detection of arsenic, the following three generally accepted sources were referenced to determine if the detected concentration of arsenic fell within the expected range of detections associated with naturally occurring arsenic in the environment:

1. Duverge, Dylan Jacques, Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, Master's Thesis, December 2011 (Duverge);
2. Hansford T. Shaklette and Josephine G. Boerngen, Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270, 1984. (Shaklette); and
3. Diamond, et al, Analysis of Background Distributions of Metals in the Soil at Lawrence Berkeley National Laboratory, Lawrence Berkeley National Laboratory, Environmental Restoration Program, June 2002, revised April 2009. (LBNL).

For reference, the expected upper estimate concentration of naturally occurring arsenic, according to Duverge is 11.0 mg/kg with an arithmetic mean concentration of 4.23 mg/kg, Shaklette has an expected range of concentrations of <0.10 to 97 mg/kg with an arithmetic mean concentration of 7.0 mg/kg. The LBNL study states that the median concentration of naturally occurring arsenic in their study area is 4.8 mg/kg.

To summarize, between these three sources presenting expected concentrations of naturally-occurring arsenic, the arithmetic mean concentrations range from 4.23 mg/kg to 11.0 mg/kg. For comparison purposes, the Site arithmetic mean concentration is 1.23 mg/kg.

As discussed in Section 3.1, background soil samples were collected from previously undisturbed areas around the City of Seaside portion of the Former Fort Ord. The results of this background soil sampling effort revealed that the background arithmetic mean concentration is 1.58 mg/kg.

In order to compare the Site arsenic concentrations to background arsenic concentrations, Vista utilized the methodology outlined in the Department of Toxic Substances Control, Human and Ecological Risk Division guidance document entitled *Selecting Inorganic Constituents as Chemicals of Potential Concern at Risk Assessments at Hazardous Waste Sites and Permitted Facilities, Final Policy*, February 1997. This document outlines a process by which two data sets can be compared to see if they are statistically similar, or not, by utilizing the Wilcoxon Rank Sum Test.

A review of the Wilcoxon Rank Sum test indicates that if the mean ambient (i.e., background) concentration is higher than the mean Site concentration, the analysis is complete and there is no reason to perform additional analysis. The conclusion follows that any Site concentration of arsenic is most certainly due to background (or naturally occurring) arsenic.

Section 5.2 Hexavalent Chromium in Soil

As summarized in Section 4.1, hexavalent chromium was detected in 4 of 12 soil samples above the residential RSL and ESLs in samples collected to a maximum depth of 2 feet bgs. It is not known what the source of hexavalent chromium was or what historic Site use could have resulted in the elevated detections of hexavalent chromium. It is also not known what fill or mass grading efforts occurred prior to Seaside's ownership of the Site that could account for the detections in deeper samples.

It is recommended that areas with elevated hexavalent chromium be removed via an over-excavation and soil disposal program. The over-excavation and soil disposal program is described in Section 6.0.

Section 5.3 Cobalt in Soil

As summarized in Section 4.1, cobalt was detected in 1 of 12 soil samples above the residential RSL and ESL. It is not known what the source of cobalt was or what historic Site use could have resulted in the elevated detection of cobalt. The 1 elevated detection of cobalt occurs in soil samples collected from 0.0 to 0.5 feet bgs at the hardscape area. All other detections were

consistently low and within the expected range of detections of naturally occurring cobalt when compared to the references cited in Section 5.1.

It is recommended that areas with elevated cobalt be removed via an over-excavation and soil disposal program. The over-excavation and soil disposal program is described in Section 6.0.

Section 5.4 Lead in Soil

As summarized in Section 4.1, lead was detected in two of 13 soil samples above the residential RSL and ESL. The two soil samples exceeding the residential RSL and ESL were both collected from around building 4214 within the Site but during different sampling events. The first soil sample was collected by Engeo in 2017. The Engeo soil sample was collected from 0.5 feet bgs and contained lead at a concentration of 237 mg/kg. The second soil sample was collected by Vista in April 2021. The Vista soil sample was collected from 0.5 feet bgs and contained lead at a concentration of 180 mg/kg. All other detections were within the expected range of detections of naturally occurring lead when compared to the references cited in Section 5.1.

It is recommended that areas with elevated lead be removed via an over-excavation and soil disposal program. The over-excavation and soil disposal program is described in Section 6.0.

Copies of the laboratory analytical reports for soil samples are included as Attachment 3.

To summarize, all soil known to contain concentrations of hexavalent chromium, cobalt and lead above residential RSLs or residential ESLs will be removed from the Site.

SECTION 6.0 WORK PLAN FOR SOIL OVER-EXCAVATION AND SOIL DISPOSAL

This soil over-excavation and soil disposal program has been developed to guide the removal of soil at the Site exceeding residential ESLs or RSLs. The objective is to remove soil down to the depth of the deepest soil sample exceeding the criteria. A description of the excavation area, soil stockpile plan, waste characterization plan and soil offhaul plan is presented below.

Section 6.1 Excavation Area

This section defines the area to be over-excavated at the hardscape area and the building area.

Section 6.1.1 Hardscape Area

As stated in Sections 5.2 and 5.3, hexavalent chromium was detected above residential ESLs and RSLs down to a maximum depth of 2 feet bgs at the hardscape area. Incidentally, cobalt was detected above residential ESLs and RSLs down to a maximum depth of 0.5 feet bgs at the hardscape area. Therefore, the initial excavation depth is to 2.0 feet bgs. The excavation area is defined as the lateral extent of the existing parking lot, up to the existing roads, including the entrance and exit roadways leading from existing roads to the parking lot. Any sidewalk or curb/gutter associated with the existing roads will remain undisturbed. It is estimated that the total area to be over-excavated is approximately 25,000 square feet.

Prior to over-excavation, the existing asphalt surface and any concrete curbs or sidewalks within the hard scape area will be broken into manageable sizes, loaded into awaiting trucks and removed from the Site. It is assumed the contractor will transport the asphalt and concrete to a recycler or to other licensed facilities that can accept construction debris.

Once hardscape elements are removed, the contractor will perform a field survey to establish the surface elevation of newly exposed soil. The results of this field survey will be memorialized in a field memo prepared by the contractor and will include a map of the area with elevations posted. Once the field survey is complete, the over-excavation process will commence. Once the total depth is reached, the depth of the initial over-excavation will be confirmed by a second field survey, also memorialized in a field memo. A comparison will be made to ensure adequate soil has been removed. When the initial depth is achieved over the entire hardscape area and the confirmatory field survey is performed, the contractor will alert the Owner or Owner's representative, who will then perform their own field check to ensure the initial over-excavation depth has been achieved. It is estimated that approximately 1,900 bank cubic yards will be generated by the initial over-excavation effort at the hardscape area.

Section 6.1.2 Building Area

As stated in Sections 5.2 and 5.4 hexavalent chromium was detected above residential ESLs and RSLs down to a maximum depth of 2 feet bgs at the hardscape area. Incidentally, lead was detected above residential ESLs and RSLs down to a maximum depth of 0.5 feet bgs at the building area. Therefore, the initial excavation depth is to 2.0 feet bgs. The excavation area is defined as the building footprint plus 2 additional feet in all 4 directions to capture the drip line of the building. It is estimated that the total area to be over-excavated is approximately 5,000 square feet.

Prior to over-excavation, the existing building will be demolished and associated concrete foundation will be broken into manageable sizes, loaded into awaiting trucks and removed from the Site. Building demolition debris will be handled under a separate document. It is assumed the contractor will transport the concrete to a recycler or to other licensed facilities that can accept construction debris.

Once the building and concrete foundation are removed, the contractor will perform a field survey to establish the surface elevation of newly exposed soil. The results of this field survey will be memorialized in a field memo prepared by the contractor and will include a map of the area with elevations posted. Once the field survey is complete, the over-excavation process will commence. Once the total depth is reached, the depth of the initial over-excavation will be confirmed by a second field survey, also memorialized in a field memo. A comparison will be made to ensure adequate soil has been removed. When the initial depth is achieved over the entire hardscape area and the confirmatory field survey is performed, the contractor will alert the Owner or Owner's representative, who will then perform their own field check to ensure the initial over-excavation depth has been achieved. It is estimated that approximately 375 bank cubic yards will be generated by the initial over-excavation effort at the building area.

The Phase 1A over-excavation area is depicted on Figure 4.

6.2 Confirmatory Soil Sampling Program

At the conclusion of the over-excavation process described above, the Owner or Owner's representative will mobilize to the Site and collect confirmatory soil samples to check for the presence of remaining soil exceeding residential ESLs and/or RSLs.

6.2.1 Hardscape Area

Confirmatory soil samples will be collected in a grid pattern over the entire extent of the over-excavation area. Given the size of the over-excavation area, 6 evenly sized quadrants will be established and a soil sample collected from within each quadrant from the newly exposed soil surface. Soil samples will be analyzed for hexavalent chromium and cobalt. A 5-day turnaround time will be requested from the lab. Hardscape area confirmatory soil sampling locations are depicted on Figure 5.

Upon receipt of analytical results from the confirmatory soil sampling program, the results will be transmitted to the City of Seaside so a decision can be made as to whether the soil excavation process can be considered complete.

6.2.2 Building Area

Soil samples will be collected in a grid pattern over the entire extent of the over-excavation area. Given the size of the over-excavation area, 3 evenly sized quadrants will be established and a soil sample collected from within each quadrant from the newly exposed soil surface. Soil samples will be analyzed for hexavalent chromium and lead. A 5-day turnaround time will be requested from the lab. Building area confirmatory soil sampling locations are depicted on Figure 5.

Upon receipt of analytical results from the confirmatory soil sampling program, the results will be transmitted to the City of Seaside so a decision can be made as to whether the soil excavation process can be considered complete.

Section 6.3 Soil Stockpile Plan

During the over-excavation process at both the hardscape area and the building area, removed soil will be placed in a stockpile to be located within the excavation zone. Mixing of soil between the two excavation areas will not occur. Stockpiles will be protected to prevent generation of wind-blown dust and to prevent transport of sediment laden stormwater off of the Site.

Section 6.4 Waste Characterization Plan

Once over-excavation is complete, the stockpile(s) will be sampled for waste characterization purposes. The contractor will provide the name of their selected soil disposal facility to the Owner. Assuming the Owner approves of the soil disposal facility, the Owner will then contact the facility to understand the specific analyte list and soil sampling density to satisfy the disposal facility. The Owner or Owner's representative will then mobilize to the Site to collect soil samples, as per the disposal facility requirements. Once a stockpile is sampled for waste characterization purposes, soil cannot be added to this stockpile.

Upon receipt of analytical results, including any solubility testing, the Owner will review, then transmit the data to the contractor. The contractor will be responsible for preparing and submitting the waste profile application to the disposal facility and for obtaining any required waste manifests. The Owner will sign any required waste manifests as the generator.

Section 6.5 Soil Offhaul Plan

On the day(s) that soil will be loaded into trucks and transported to the disposal facility, the contractor will load the stockpiled soil into awaiting trucks provided by the contractor. All trucks will be tarped and loaded in such a manner that the soil surface is not visible above the sidewalls of the truck. The contractor is responsible to ensure that trackout onto adjacent public streets is controlled and that any visible trackout is removed in a timely fashion but in no case will it remain at the end of the day.

When all soil is removed, the Owner or Owner's representative will be contacted and an inspection will be performed. The inspection will ensure that no soil removed during the over-excavation process remains at the Site. Once the Owner or Owner's representative confirms that all soil removed during the over-excavation process, the soil remediation phase of work is complete.

Respectfully Submitted,
Vista Environmental Consulting



Jeff Austin
Senior Project Manager



Charles R. Bove
Principal

FIGURES

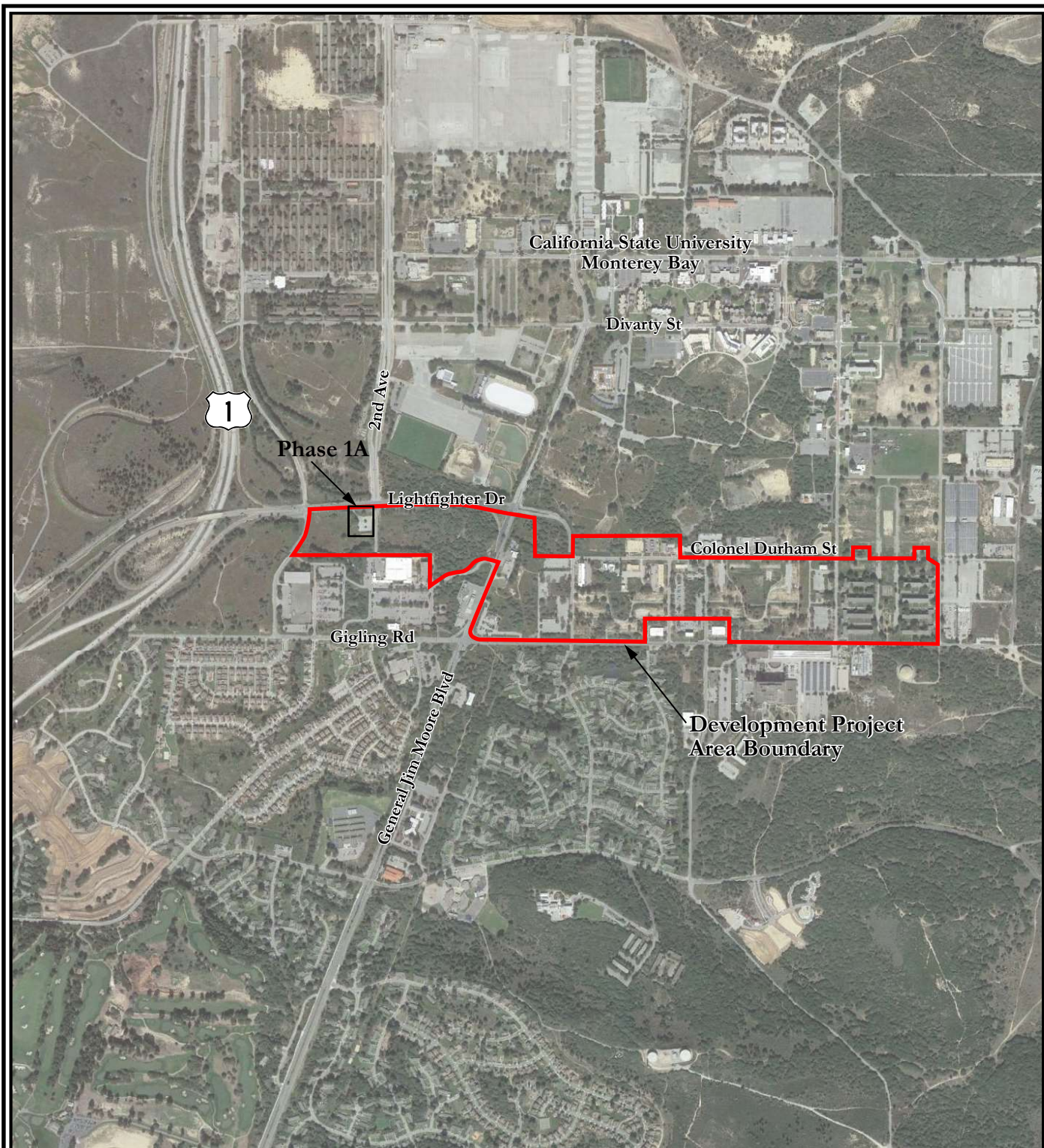
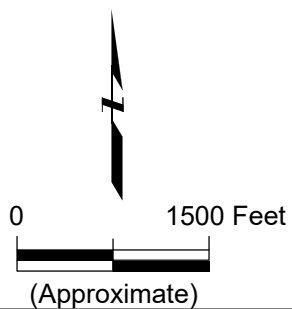


Image from Google Earth Pro



 VISTA ENVIRONMENTAL
CONSULTING
2984 Teagarden Street
San Leandro, CA 94577

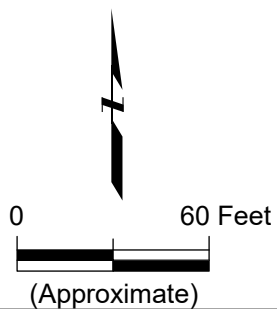
Figure 1
**Site Location Map
Phase 1A**
City of Seaside
Campus Town Development



Image from Google Earth Pro

LEGEND

- ✚ Vista Soil Boring Location;
April, July & August 2021



 VISTA ENVIRONMENTAL
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2984 Teagarden Street
San Leandro, CA 94577

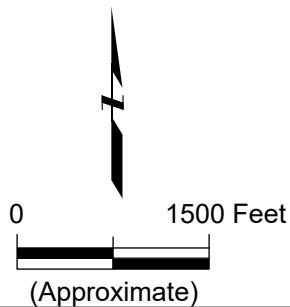
Figure 2
**Soil Sampling Locations
Phase 1A**
City of Seaside
Campus Town Development



Image from Google Earth Pro

LEGEND

● Soil Boring Location



 VISTA ENVIRONMENTAL
CONSULTING
2984 Teagarden Street
San Leandro, CA 94577

Figure 3
**Background Arsenic
Soil Sampling Location Map**
City of Seaside
Campus Town Development



Image from Google Earth Pro

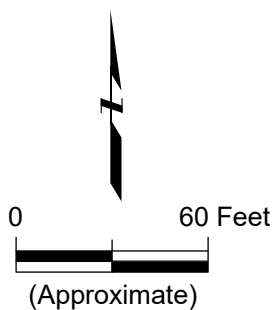
LEGEND



Vista Soil Boring Location



Over-excavation Area



VISTA ENVIRONMENTAL
CONSULTING

2984 Teagarden Street
San Leandro, CA 94577

Figure 4
**Over-Excavation Area
Phase 1A**
City of Seaside
Campus Town Development



Image from Google Earth Pro

LEGEND

-  Vista Confirmatory Soil Boring Location
-  Over-excavation Area

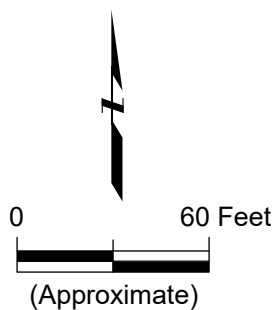


Figure 5
**Confirmatory Soil Sampling
 Location Map
 Phase 1A**
 City of Seaside
 Former Fort Ord - Phase 1

TABLES

TABLE 1
Analytical Results Summary for Metals in Soil
Seaside - Campus Town Development
Former Fort Ord Army Base
Seaside, California

Sample Location		Sample Depth (feet bgs ¹)	Sample Date ^{2,3}	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Hexavalent Chromium	Cobalt	Copper	Lead	STLC Pb	TCLP Pb	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
				Results are in milligrams per kilogram(mg/kg)																			
AREA 1	HARDSCAPE	0.5	4/29/21	<3.3	1.2	21	<0.55	<0.55	13	3.6	73	3.9	1.6	NA ⁴	NA	<0.15	<1.1	13	<3.3	<0.55	<3.3	12	7.6
		1	7/9/21	<2.6	1.5	18	<0.44	<0.44	12	<0.80	1.9	4.4	2.4	NA	NA	<0.15	<0.88	9	<2.6	<0.44	<2.6	8.2	7.1
		1.5	7/9/21	<2.9	0.83	22	<0.48	<0.48	13	<0.80	1.9	2.5	2.1	NA	NA	<0.16	<0.95	9	<2.9	<0.48	<2.9	8.9	7.4
		2	7/9/21	<2.5	1.4	25	<0.42	<0.42	12	1.3	2	3	4.5	NA	NA	<0.16	<0.83	8.1	<2.5	<0.42	<2.5	9.6	9.3
		3.0	8/26/21	<2.9	1.4	30	<0.48	<0.48	13	<0.26	2.2	2.1	5.9	NA	NA	<0.16	<0.95	8.7	<2.9	<0.48	<2.9	12	8.6
		7.0	8/26/21	<3.3	1.5	31	<0.54	<0.54	15	<0.26	2.1	1.9	2.4	NA	NA	<0.15	<1.1	1.1	<3.3	<0.54	<3.3	12	8.4
	BUILDING 4214	0.5	5/24/17	NA	3.97	NA	NA	NA	NA	NA	NA	NA	237.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		0.5	4/29/21	<2.9	2.8	150	<0.49	<0.49	33	<0.80	4.2	15	180.0	5.2	0.1	0.21	<0.97	15	<2.9	<0.49	<2.9	17	190
		1	7/9/21	<2.8	2.8	55	<0.47	<0.47	19	2.8	2.4	6.5	36.0	NA	NA	<0.15	<0.94	12	<2.8	<0.47	<2.8	11	73
		1.5	7/9/21	<2.8	2.3	46	<0.46	<0.46	17	<0.80	2.4	5.6	44.0	NA	NA	<0.14	<0.93	11	<2.8	<0.46	<2.8	11	60
		2	7/9/21	<2.5	1.5	26	<0.42	<0.42	12	1.6	1.9	2.3	5.3	NA	NA	<0.15	<0.85	9.2	<2.5	<0.42	<2.5	8.7	13
		3.0	8/26/21	<2.9	1.7	19	<0.49	<0.49	14	<0.26	1.8	1.7	2.2	NA	NA	<0.15	<0.98	11	<2.9	<0.49	<2.9	9.8	7.9
		7.0	8/26/21	<3.1	1.2	21	<0.52	<0.52	12	<0.26	1.9	1.8	2.3	NA	NA	<0.15	<1.0	8.3	<3.1	<0.52	<3.1	9.8	8.5
Background Soil Samples																							
BG-0.5-26AUG2021	0.5	8/26/21	<3.0	1.4	42	<0.51	<0.51	13	<0.26	2.2	3.8	7.60	NA	NA	<0.16	<1.0	8.9	<3.0	<0.51	<3.0	12	14	
BG-1.0-26AUG2021	1.0	8/26/21	<3.1	1.6	46	<0.52	<0.52	14	<0.26	2.3	2.8	3.40	NA	NA	<0.16	<1.0	9.0	<3.1	<0.52	<3.1	13	9.2	
BG-1.5-26AUG2021	1.5	8/26/21	<3.0	1.7	43	<0.50	<0.50	14	<0.26	2.3	2.5	2.70	NA	NA	<0.15	<0.99	8.9	<3.0	<0.50	<3.0	13	8.2	
BG-2.0-26AUG2021	2.0	8/26/21	<3.0	1.7	35	<0.51	<0.51	13	<0.26	2.1	2.1	2.40	NA	NA	<0.16	<1.0	8.2	<3.0	<0.51	<3.0	12	7.4	
BG-4-0.5-2DEC2021	0.5	12/2/21	NA	1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-4-1.0-2DEC2021	1.0	12/2/21	NA	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-4-1.5-2DEC2021	1.5	12/2/21	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-4-2.0-2DEC2021	2.0	12/2/21	NA	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-5-0.5-2DEC2021	0.5	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-5-1.0-2DEC2021	1.0	12/2/21	NA	1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-5-1.5-2DEC2021	1.5	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-5-2.0-2DEC2021	2.0	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-6-0.5-2DEC2021	0.5	12/2/21	NA	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-6-1.0-2DEC2021	1.0	12/2/21	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-6-1.5-2DEC2021	1.5	12/2/21	NA	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
BG-6-2.0-2DEC2021	2.0	12/2/21	NA	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Regulatory Agency Comparison Criteria																							
RWQCB ESLs, Residential Property Use ⁵				11	0.067	15,000	16	78	NE ⁶	0.3	23	3100	80	NE	NE	13	390	820	390	390	0.78	390	23,000
RWQCB ESLs, Commerical/Industrial Property Use ⁵				160	0.31	220,000	230	1100	NE	6.2	350	47,000	320	NE	NE	190	5800	11,000	5600	5800	12	5800	350,000
USEPA RSLs, Residential Property Use ⁷				31	0.68	15,000	160	71	NE	0.3	23	3100	82	NE	NE	11	390	670	390	390	0.78	390	23,000
USEPA RSLs, Industrial Property Use ⁷				470	3.0	220,000	2300	980	NE	6.3	350	47,000	380	NE	NE	46	5800	8100	5800	5800	12	5800	350,000

Notes and abbreviations:

A complete copy of the analytical laboratory reports are included in Appendix A.

- bgs = below ground surface
- May 24, 2017 samples collected by Engeo, Inc., and presented in the Phase II Enviornmental Site Assessment, June 16, 2017
- April 28, April 29, July 9 and August 26, 2021 samples collected by Vista Environmental Consulting
- NA = not analyzed
- RWQCB Environmental Screening Levels, Table S-1, Soil Directd Expopsure Human Health Risk Screening Levels, 2019, rev. 2
- NE = no level established
- USEPA Regional Screening Level Summary Table, TR=1E-06, HQ = 1), May 2021

TABLE 2
Analytical Results Summary for TPH, VOCs ,sVOCs, Pesticides, PCBs in Soil
Seaside - Campus Town Development
Former Fort Ord Army Base
Seaside, California

Sample Location		Sample Depth (feet bgs ¹)	Sample Date	Total Petroleum Hydrocarbons			Volatile Organic Compounds			Semi-VOC		Pesticides									PCBs
				TPHg	TPHd	TPHmo	acetone	para-Isopropol toluene	naphthalene	naphthalene	BEHP	Heptachlor Epoxide	endrin aldehyde	chlordane	alpha chlordane	gamma chlordane	dieldren	4,4'-DDD	4,4'-DDE	4,4'-DDT	Aroclor 1260
				Results are in milligrams per kilogram(mg/kg)																	
AREA 1	HARDSCAPE	0.5	4/29/21 ²	<3.6	<10	<20	<0.180	<0.089	0.011	<0.500	0.550	<0.005	<0.005	<0.050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.025
	BUILDING 4214	0.5	5/24/17 ³	NA	NA	NA	NA	NA	NA	NA	NA	<0.0016	<0.003	0.0884	0.0085	0.0117	0.0101	0.0128	0.0066	0.0546	NA
		0.5	4/29/21	4.7	50	140	0.850	<0.014	<0.014	<0.250	<0.250	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.032	0.035
RWQCB ESLs, Residential Property Use ⁴				430	260	12,000	61,000	NE ⁵	3.8	39	0.062	NE	0.48	NE	NE	0.037	2.7	1.8	1.9	0.23	
RWQCB ESLs, Commerical/Industrial Property Use ⁴				2000	1200	180,000	670,000	NE	17	160	0.28	NE	2.2	NE	NE	0.16	12	8.3	8.5	0.94	
USEPA RSLs, Residential Property Use ⁶				82	97	2400	61,000	NE	NE	NE	0.07	NE	1.7	36	36	0.034	1.9	2.0	1.9	0.24	
USEPA RSLs, Industrial Property Use ⁶				420	560	30,000	670,000	NE	NE	NE	0.33	NE	7.7	500	500	0.14	9.6	9.3	8.5	0.99	

Notes and abbreviations:

A complete copy of the analytical laboratory reports are included in Appendix A.

- 1. bgs = below ground surface
- 2. April 29, 2021 samples collected by Vista Environmental Consulting
- 3. May 24, 2017 samples collected by Engeo, Inc.
- 4. RWQCB Environmental Screening Levels, Table S-1, Soil Directd Expopsure Human Health Risk Screening Levels, 2019, rev. 2
- 5. NE = no level estalbished
- 6. USEPA Regional Screening Level Summary Table, TR=1E-06, HQ = 1), May 2021

APPENDIX 1
PHASE II ENVIRONMENTSL SITE ASSESMENT (ENGEO 2017)

Project No.
13847.000.000

June 16, 2017

Ms. Erika Salum
KB Home Bay Area Division
5000 Executive Parkway, Suite 125
San Ramon, CA 94583

Subject: Surplus II Areas – Fort Ord
Seaside, California

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Reference: ENGEO, Phase I Environmental Site Assessment, Surplus II-Fort Ord, Seaside, California, May 10, 2017.

Dear Ms. Salum:

We are pleased to submit the findings of our phase II environmental site assessment (ESA) undertaken at the subject property (Property) in Seaside, California. The purpose of the phase II ESA is to address potential environmental concerns associated with the past use of the Property.

BACKGROUND

The approximately 111-acre Property is comprised of 13 parcels identified with the following Assessor's Parcel Numbers (APN):

- 031-151-054
- 031-151-055
- 031-151-056
- 031-151-018
- 031-151-029
- 031-151-031
- 031-151-032
- 031-151-037
- 031-151-039
- 031-151-040
- 031-151-044
- 031-261-003
- 031-261-004

The Property is currently under redevelopment activities associated with the greater planned Fort Ord redevelopment plan. The former base operation within the Property included military personal living quarters with approximately 18 barracks, five administrative buildings, two armories, one cafeteria, and one gymnasium. The majority of the Property is vacant and abandoned. Most of the structures have been vandalized and left in disrepair awaiting future redevelopment activities. There are a few support services onsite, including the Presidio of Monterey Fire Department.

ENGEO conducted a phase I ESA for the Property in May 2017 (Reference). Based on the findings of the phase I ESA assessment, one current Recognized Environmental Condition (REC), one historical REC, and one controlled REC were identified for the Property.

- Previous investigations have confirmed lead-based paint and/or asbestos containing materials exist within structures that have yet to be demolished. This represents a current REC.
- The former USTs have been closed with regulatory oversight with either missing documentation or confirmation samples confirming residual, albeit relatively low concentrations of petroleum and petroleum related constituents. This represents a historic REC.
- Land use restrictions are recorded for Fort Ord that include the subject Property and represent a controlled REC.

The following potential environmental items were also identified:

- As of 2014, three monitoring wells have been depicted within the Property boundary. It appears at least one of the monitoring wells has recently been decommissioned. The Department of Water Resources On-line Water Data Library also depicts two groundwater level station wells located south of Lightfighter Drive. The status of all wells should be confirmed.
- Pesticides were routinely applied around buildings. It is conceivable that residual pesticide and pesticide-related metals exist around buildings.
- It does not appear that a soil gas/vapor intrusion assessment has been performed for the previous underground storage tank areas and should be considered.
- According to FOST 6, UST 4430.1 and 4440.1 (Building 4430 and 4440) were closed in place in 1992. If the tanks remain, the tanks should be properly removed and disposed of with agency oversight.
- Given the land use, it is conceivable that buried items (septic tanks, debris, burnpits, etc.) could be encountered during future subsurface activities.

A phase II environmental assessment along with supplemental documentation review was recommended to address potential environmental concerns associated with the Property.

SCOPE OF FIELD EXPLORATION

Field sampling activities associated with the phase II ESA were performed on May 24, 25, 31 and June 1, 2017. Prior to drilling, an ENGEO representative contacted USA North Service Alert for identification of underground utilities at the Property. Boring permits were obtained from Monterey County Health Department Division of Environmental Health. Soil samples at each sampling location were collected on a continuous basis for classification. During drilling, the soil cores were screened for volatile organic compounds (VOCs) using a photoionization detector (PID).

The scope of the field exploration included soil and soil gas sampling. Details pertaining to each of these tasks are presented below.

PHASE II ESA EXPLORATION AND SERVICES

Task 1 – Soil Assessment

A soil sampling study was performed to address potential subsurface impairments associated with the historical uses of the Property, with focus around buildings and former underground storage tanks.

Hand sampling equipment including shovels and trowels were utilized for collecting soil samples around former buildings. Soil samples were collected in laboratory provided jars. In addition, a Geoprobe® truck-mounted rig was used to facilitate sample collection around the former USTs (S-1, S-2, and S-3). Soil samples were retrieved within continuous Geoprobe acetate core liners measuring 4 feet in length. Specific soil samples were collected for laboratory analysis by cutting a 6- to 12-inch portion of the Geoprobe soil core liners from the desired sample depth.

Following recovery, the sample liners were sealed using Teflon® sheets secured by tight-fitting plastic end caps and duct tape. Upon collection, a label was placed on the sample that included a unique sample number, sample location, time/date collected, laboratory analysis and the sampler's identification. The soil samples were placed in an ice-cooled chest and submitted under documented chain-of-custody to Torrent Laboratory, Inc., a State-certified laboratory in Milpitas, California.

Task 1a - Soil Characterization: Residual Pesticide and Pesticide-Related Metals

A near-surface sampling study was performed to address potential soil impairments associated with potential application of pesticide and pesticide-related metals around buildings as part of routine building maintenance.

Soil samples were collected from each building from 0- to 6-inches below existing grade and within 10 feet of the building foundation. Typically, four soil samples were collected from each building, except in scenarios where hardscape existed such as sidewalks or parking areas. A total of 134 soil samples were collected.

The laboratory was instructed to composite the four soil samples into one sample per building before analyzing. The submitted soil samples were analyzed for organochlorine pesticides (OCPs- EPA 8081A), total arsenic (EPA 6020B), and select samples for total lead (EPA 6020B).

Vista Environmental Consulting (Vista) completed a Site Soil Background Survey (March 4, 2016) for Fort Ord Reuse Authority (FOR A) that included lead laboratory testing; however, several buildings were not included within Vista's survey and as a result, ENGEO analyzed several select samples/buildings for total lead (EPA 6020B).

Task 1b - Soil Characterization: Former Underground Storage Tank Areas

The objective of Task 1b was to address potential subsurface impairments associated with the three former UST areas identified within the Property. A total of three soil borings were advanced across the Property; one at each of the former UST areas (S-1, S-2 and S-3). Soil samples were generally collected at approximate depths of 5, 10, 15 and 20 feet below ground surface. The shallow soil samples were submitted for laboratory analysis. The deeper samples were held pending laboratory analysis of shallow samples. It should be noted, that given drilling

limitations, S-1 was collected approximately 5 feet horizontally from the UST location on a slope that was approximately 5 feet higher in elevation.

Continuous soil cores were retrieved to an approximate depth of 20 to 25 feet below ground surface. During drilling soil was screened for visual and olfactory evidence of impact. In addition, a PID was utilized to further evaluate soil conditions. No physical indications of contamination or elevated PIDs readings were observed.

The soil samples were submitted to Torrent Laboratory, Inc., a State-certified fixed laboratory based in Milpitas, California for analysis of TPH-g and volatile organic compounds (VOCs) (EPA Method 8260), total petroleum hydrocarbons as diesel (TPH-d), and total petroleum hydrocarbons as motor-oil (TPH-mo) (EPA Method 8015 with silica gel cleanup).

Task 2 - Soil Gas Assessment

In order to evaluate potential vapor intrusion concerns, a soil gas assessment was performed. Ten temporary soil gas monitoring wells were installed at the Property and sampled on May 31 and June 1, 2017. The soil gas well locations are presented on Figure 2.

The installation and sampling of the soil gas monitoring wells were performed in accordance with the Department of Toxic Substances Control (DTSC) Final Advisory Active Soil Gas Investigations (July 2015). The soil gas monitoring well casings were constructed with ¼-inch-diameter Teflon tubing equipped with a filter at the base of the tubing. The well installation was performed with a direct push probe rig, which advanced an approximately 2-inch-diameter boring to a depth of 6 feet below the ground surface. The bottom of the well casing was equipped with a filter situated at a depth of approximately 5.5 feet below the ground surface, centered in the middle of a 1-foot-layer of No. 3 sand. One foot of dry bentonite was installed on top of the sand, and the remaining annular space was filled with hydrated bentonite grout to the surface.

Following installation of the annular seal, the well casings were equipped with a permanent Swagelok® ferrule and nut. A threaded plug was then screwed into the nut and the mandatory two-hour equilibration time began. The sample train was connected to the well tubing by threading the permanent Swagelok® fitting on the well casing onto the manifold. The sample train consisted of a stainless steel twin summa manifold with a built-in flow controller set to 100 to 200 milliliters per minute (ml/min). A purge vacuum pump was attached to the manifold connection closest to the well casing and the sample canister was connected to the manifold fitting furthest away from the well casing. Prior to connecting the sample train to the well casing, a shut-in test was performed to assess for potential leaks. The shut-in test consisted of capping the end of the manifold, then applying a vacuum with the vacuum pump, closing the purge valve, and observing the vacuum gauge for two minutes to check for a drop in the vacuum. Once the sample train was connected to the well casing, all of the valves were closed, allowing a mandatory two-hour equilibration time to commence. After the two-hour equilibration time elapsed, three well volumes were purged from the wells. After purging was completed, the purge valve on the manifold was closed, and the vacuum pump was removed and connected to another well. Samples were collected by opening the sample canister valve and allowing the sample canister to extract soil gas until the vacuum in the sample canister reached approximately 5 inches of mercury. The leak detection compound 1,1-difluoroethane (1,1-DFA) was applied by wrapping a doused rag around the manifold fittings during sample collection.

Each sample canister was labeled with a unique identification number, sampling time and pre- and post-sample vacuum readings. The ten soil gas samples were submitted to Torrent Laboratory, Inc., a State-certified fixed laboratory, under documented chain-of-custody for analysis of VOCs, including TPH-gasoline and naphthalene, by EPA Test Method TO-15.

Task 3 – Supplemental Documentation Review

In order to further evaluate potential environmental and/or developmental concerns, supplemental documentation review of publically available information was performed.

Status of Onsite Wells

Based on our discussion with the lead regulatory agency case officer, Mr. Grant Himebaugh (RWQCB), as well as with Mr. Jeff Fenton (Amec Foster Wheeler) who performed the last round of well monitoring, both confirmed the previous monitoring wells have been properly destroyed.

We also confirmed with Monterey Peninsula Water Management District (MPWMD) that MPWMD owns and operates a well within the parcel south of Lightfighter Drive and the well is to remain. See Figure 2 for approximate location.

Potential Presence of Former USTs Closed In Place

Documents reviewed during the referenced Phase I ESA were conflicting in that some documents indicated that two former USTs (4430.1 and 4440.1) were closed in place and some documents indicated the USTs were removed. Our recent subsurface drilling exploration did not encounter a former underground storage tank (UST) or UST-related items. We also had further discussions with the City of Seaside, Monterey County Environmental Health Bureau, and BAREC representatives who believe that all former tanks have been removed. While formal UST removal documentation does not appear to exist, it appears unlikely that USTs 4430.1 and 4440.1 remain in place. If desired, supplemental exploration excavation around the former USTs could provide additional insight.

ANALYTICAL RESULTS

Soil Sampling

Task 1a - Residual Pesticide and Pesticide-Related Metals

Organochlorine pesticides were mostly reported as non-detectable and below applicable residential screening levels, with the exception of five samples that reported elevated dieldrin. Dieldrin ranged from 1.09 to 99.2 micrograms per kilogram ($\mu\text{g}/\text{kg}$) which is above conservative Regional Screening Levels (RSLs) established by the United States Environmental Protection Agency (USEPA) Region IX for residential land use¹ and Environmental Screening Levels (ESLs) established by Regional Water Quality Control Board². However, the reported concentrations are below applicable commercial use ESLs.

Arsenic ranged from 1.11 milligrams per kilogram (mg/kg) to 3.97 mg/kg . The reported arsenic concentrations exceed the current residential RSL and ESL; however, these concentrations are

¹ Regional Screening Levels, residential soil, USEPA Region IX, May 2016.

² Environmental Screening Levels residential and commercial, RWQCB, February 2016, Rev 3.

consistent with background soil concentrations found in this region of the State of California³. CAL-EPA do not require remedial actions for arsenic consistent with background concentrations, or typically below 11 mg/kg.

Lead ranged from 4.04 mg/kg to 22.6 mg/kg with one maximum concentration of 237 mg/kg. While the 237 mg/kg concentration exceeds conservative residential screening level of 80 mg/kg, it does not exceed applicable ESL for commercial use of 320 mg/kg.

A summary of the soil sample analytical results is presented in Table A. The laboratory results are presented in their entirety in Appendix A.

Task 1b - Former Underground Storage Tank Areas

Soil samples reported non-detectable concentrations of VOCs, TPH-g and TPH-mo. De minimis concentrations of TPH-d were reported with a maximum concentration of 3.14 mg/kg, which is well below both RSLs and ESLs for residential use, 96 mg/kg and 230 mg/kg, respectively.

A summary of the soil sample analytical results is presented in Table B. The laboratory results are presented in their entirety in Appendix A.

Soil Gas Sampling

Several low-level potential target analytes (including acetone, benzene, toluene, TPH-g, etc) were detected in soil gas samples. The leak check compound 1,1-DFA was not detected in any of the samples.

We compared the detected soil gas concentrations to both the USEPA's RSLs established for residential air⁴ and to the modified screening levels for volatile compounds in ambient air established by the California Department of Toxic Substances Control.⁵ The reported concentrations were below the corresponding screening levels. One exception is sample location SG-10 that reported ethyl benzene at 1,600 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$).

A summary of the soil gas analytical results is presented in Table C. The laboratory results are presented in their entirety in Appendix A.

DISCUSSION AND CONCLUSION

Soil Sampling

Review of the laboratory test results found elevated concentrations of dieldrin or lead at six locations (Buildings 4214, 4419, 4432, 4438, 4550, and 4560) above conservative residential screening levels (RSLs and ESLs), but below applicable commercial use ESLs. The soil could be excavated and disposed offsite or alternatively excavated and reused at a commercial site.

³ Bradford, G.R., A.C. Chang, A.L. Page, D. Bakhtar, J.A. Frampton, and H. Wright; Background Concentrations of Trace and Major elements in California Soils; Kearney Foundation of Soil Science, Division of Agriculture and Natural resources, University of California; March 1996.

⁴ EPA Region 9 Regional Screening Levels (RSLs) for indoor air (May 2016) with an attenuation factor of 0.001 for future residential land use.

⁵ DTSC Modified Screening Levels for Volatile Compounds in Ambient Air (September 2015) with an attenuation factor of 0.001 for future residential land use.

With the exception of the six identified buildings, the Property does not appear to have been significantly impacted by the past pesticide building maintenance practices.

Drilling activities around former UST areas included collecting continuous soil cores to an approximate depth of 20 to 25 feet below ground surface. During drilling, soil was screened for visual and olfactory evidence of impact and in addition, a PID was utilized to further evaluate soil conditions. No signs of contamination or elevated PIDs readings were observed. Laboratory results reported non-detectable to very low concentrations that are below applicable residential RSLs and ESLs. Residual soil impact does not appear to exist around the three identified former UST areas.

Soil Gas Sampling

Several VOC and TPH-g analytes were detected in the soil gas samples collected from the Property; however, the reported concentrations are below respective screening levels with the exception of ethyl benzene in one location, SG-10, See Figure 2. SG-10 is located south of Building 4440, near Gigling Road and Seventh Avenue. The soil gas location is also approximately 75 feet south of the former UST (4440.1); however, the anomalous soil gas detection is unlikely related to the former UST based on closure documentation, site lithology, and the recent soil sampling completed this round. It is more likely related to a localized outlier condition and subsequent sampling with laboratory analysis should be performed to characterize the area. For conservative preliminary planning purposes, a vapor intrusion mitigation system (VIMS) could be installed for the area around SG-10. However, it is our professional opinion that the ethyl benzene exceedance is likely isolated, which could be confirmed with additional sampling and analysis to further evaluate potential health risks. Based on the analytical results, vapor intrusion would not be considered a concern for the proposed redevelopment of the Property, with the possible exception of the area around SG-10.

CLOSING

Based on the referenced Phase I ESA, this Phase II ESA, and previous work performed by others, there does not appear to be any significant environmental constraints for redevelopment. ENGEO recommends the following:

- Mitigate elevated dieldrin and lead in soil around six identified buildings. The soil concentrations are above residential land use, but below commercial land use screening levels. Mitigation could include excavation and offsite disposal, or excavation and re-use on commercial land.
- Investigate the anomalous soil gas detection around SG-10 to determine appropriate mitigation options including risk-based evaluation, installing a VIMS system, or excavation and offsite disposal.

Consistent with our Phase I ESA recommendations, ENGEO has three subsequent recommendations:

- A summary letter describing the removal activities performed and determination that no further action is needed associated with the lead-based paint and asbestos containing material be provided for KB Home Bay Area Division for review.

- To increase confidence that the former USTs have been removed, perform additional exploration excavation around the former UST areas. In the event tanks remain, the tanks should be properly removed and disposed of with agency oversight.
- Prior to future grading activities, prepare a Site Management Plan (SMP) in the event debris or impacted items are encountered during subsurface activities. If a SMP already exists for the area and covers anticipated activities, a new SMP would not need to be created.

It is our professional opinion that the Property is suitable for residential and commercial redevelopment.

If you have any questions regarding this report, please contact us.

Sincerely,

ENGEO Incorporated



Scott Johns, PE



Shawn Munger, CHG

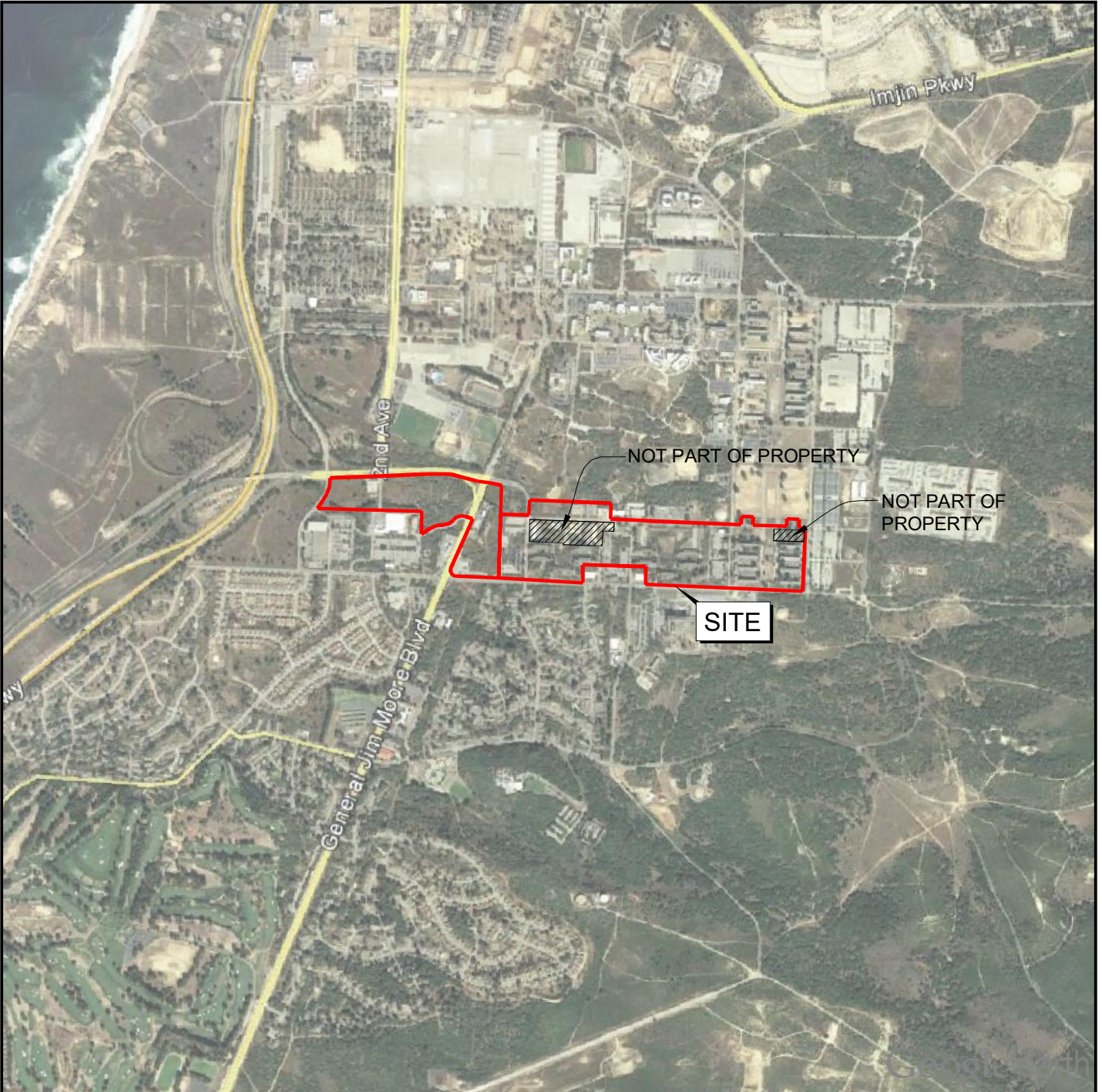
sj/sm/cjn

Attachments: Figures 1 and 2
Tables A, B and C
Appendix A – Laboratory Analysis Report

FIGURES

Figure 1 – Vicinity Map
Figure 2 – Sample Locations

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BASE MAP SOURCE: GOOGLE EARTH MAPPING SERVICE



VICINITY MAP
FORT ORD SURPLUS II AREAS
SEASIDE, CALIFORNIA

PROJECT NO.: 13847.000.000

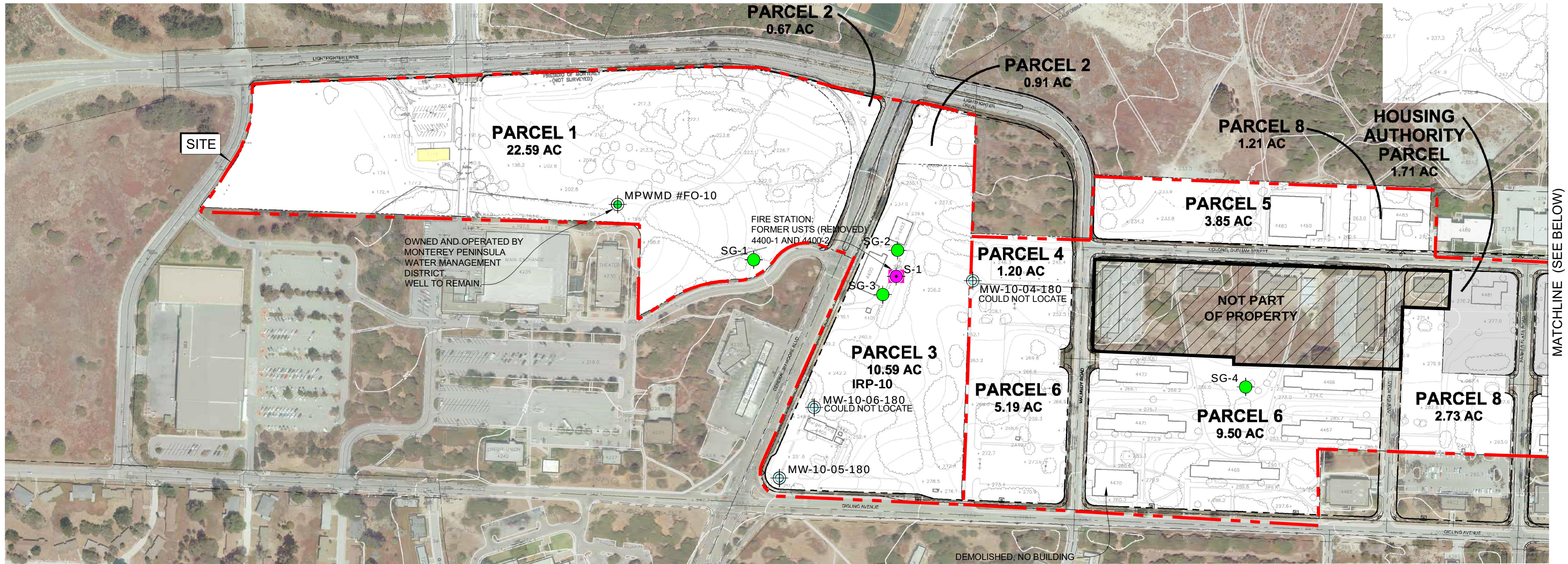
SCALE: AS SHOWN

DRAWN BY: GLJ

CHECKED BY: SPM

FIGURE NO.

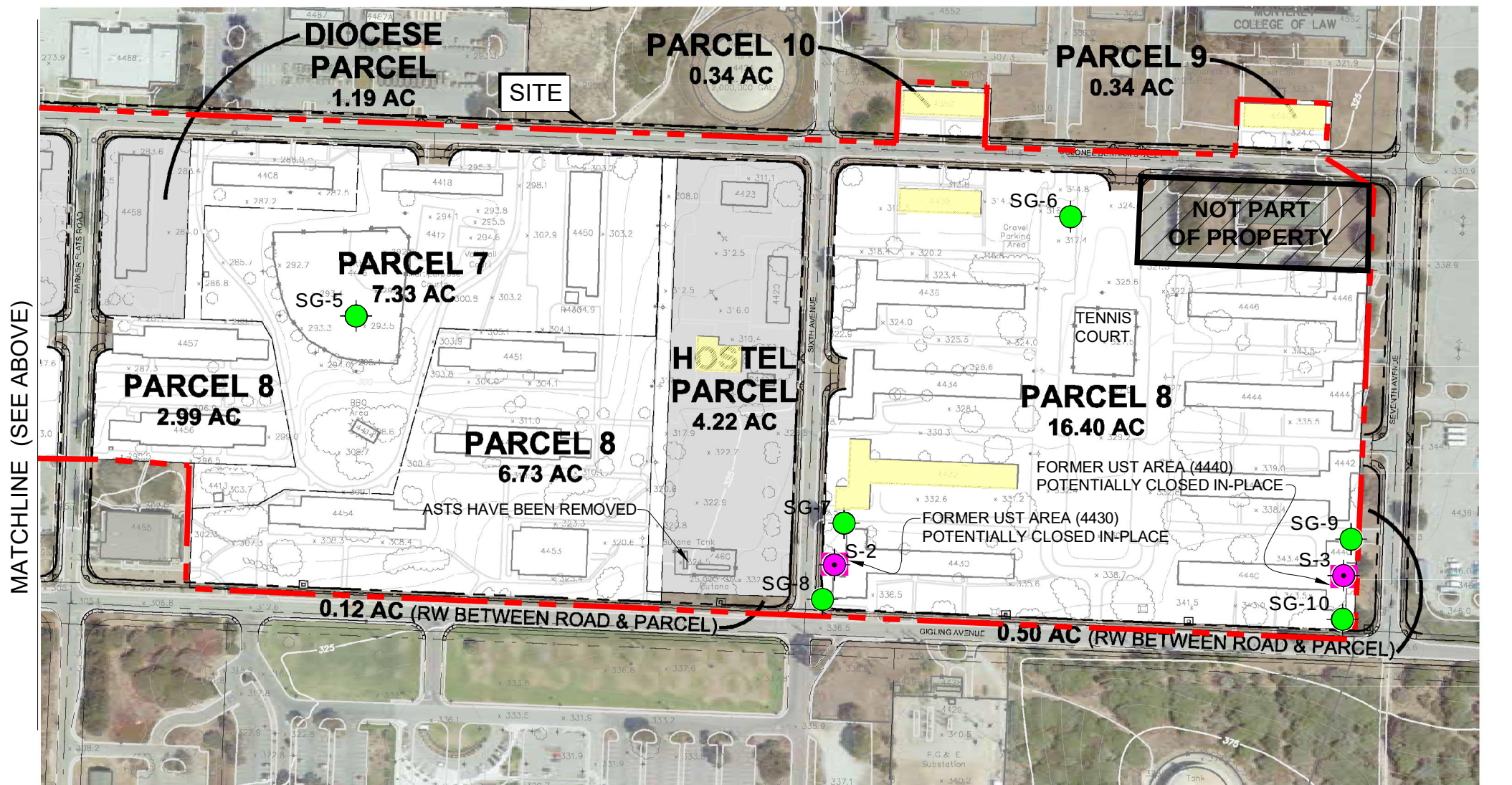
1



LEGEND

- CENTER LINE
- FACE OF CURB
- SIDEWALK
- RIGHT-OF-WAY
- (EX) PARCEL BOUNDARY
- (EX) TRANSMISSION TOWER
- DEVELOPMENT AREA
- POTENTIAL DEVELOPMENT AREA

PARCEL SIZE			
SURPLUS II			
SEASIDE, CALIFORNIA			
Parcel Number	Size per APN Map (Acres)(1)	Gross Size (Acres)(1)(3)	Developable Area per Constraints Exhibit (Acres)(2)
1	22.52	22.52	22.59
2	2.835	2.835	1.58
3	11.28	11.28	10.59
4	1.23	1.23	1.20
5	3.811	3.81	3.85
6	16.24	16.23	14.69
7	7.49	7.35	7.33
8	38.39(3)	38.39	30.06
9	0.336	0.336	0.34
10	0.336	0.336	0.34
Total	104.458	104.317	92.57
POTENTIAL ADDITIONAL PARCELS			
Parcel Owner	Size per APN Map (Acres)(1)	Gross Size (Acres)(1)(3)	Developable Area per Constraints Exhibit (Acres)(2)
Diocese	1.16	1.16	1.19
Hostel	4.654	4.17	4.22
Housing Authority	1.678	1.678	1.71
Total	7.492	7.008	7.12
Grand Total	111.95	111.325	99.69
NOTES:			
1) Inclusive of Street Rights-of-Way			
2) Exclusive of Street Rights-of-Way			
3) Calculated from boundary drawing prepared by RJA due to discrepancies on the APN Map			



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE
MW-10-06-180

- ABANDONED MONITORING WELL
- MONITORING WELL
- MPWMD #FO-10
- SG-10
- SG-3
- SOIL GAS SAMPLE (ENGEO, 2017)
- SOIL SAMPLE (ENGEO, 2017)

- BUILDING WITH ELEVATED LEAD OR DIELDRIN ABOVE RESIDENTIAL LEVELS BUT BELOW COMMERCIAL LEVELS
- FORMER UNDERGROUND STORAGE TANK

BASE MAP SOURCE: RJA, JULY 2016



SAMPLE LOCATIONS
FORT ORD SURPLUS II AREAS
SEASIDE, CALIFORNIA

PROJECT NO.: 13847.000.000
SCALE: AS SHOWN
DRAWN BY: GLJ
CHECKED BY: SPM

FIGURE NO.
2

TABLES

Table A - Summary of Soil around Buildings Analytical Data
Table B - Summary of Soil around Former USTs Analytical Data
Table C - Summary of Soil Gas Analytical Data

TABLE A
Laboratory Results Summary - Soil Around Buildings

SAMPLE	DEPTH (feet)	DATE	METALS		ORGANOCHLORINE PESTICIDES										
			Arsenic*	Lead	4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane	gamma-Chlordane	alpha-Chlordane	Dieldrin	Endrin Aldehyde	Heptachlor Epoxide	Heptachlor	OTHER OCPs
			mg/Kg	mg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	µg/Kg	
4454-N,E,S,W-comp	0-0.5	5/24/2017	2.04	N/A	ND	5.94	ND	ND	ND	ND	ND	9.04	ND	ND	ND
4214-N,E,S,W-comp	0-0.5	5/24/2017	3.97	237	12.8	6.58	54.6	88.4	11.7	8.5	10.1	ND	ND	ND	ND
4400-S,W-comp	0-0.5	5/24/2017	1.37	22.6	ND	29.9	42.8	65.3	4.71	4.92	8.38	ND	ND	ND	ND
4405-N,E,W-comp	0-0.5	5/24/2017	2.5	6.43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4408-N,E,S,W-comp	0-0.5	5/24/2017	1.86	N/A	ND	ND	ND	ND	ND	ND	16.5	ND	ND	ND	ND
4418-N,E,S,W-comp	0-0.5	5/24/2017	1.59	N/A	ND	ND	ND	ND	ND	ND	19.3	ND	ND	ND	ND
4419-N,S,W COMP	0-0.5	5/24/2017	1.27	11.1	ND	ND	ND	106	10.5	12.1	69.6	ND	ND	ND	ND
4420-N,E,S,W-comp	0-0.5	5/24/2017	1.64	13.2	ND	ND	ND	ND	ND	ND	16.2	ND	ND	ND	ND
4421-N,E,S,W-comp	0-0.5	5/24/2017	2.31	13.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4423-N,E,S,W-comp	0-0.5	5/24/2017	2.24	15.1	ND	8.02	ND	ND	ND	ND	7.16	ND	ND	ND	ND
4430-N,E,S,W COMP	0-0.5	5/25/2017	1.14	N/A	ND	3.25	5.93	ND	ND	ND	27.8	ND	ND	ND	ND
4432-N,E,S,W COMP	0-0.5	5/25/2017	1.78	N/A	ND	2.07	4.96	327	37.5	39.8	37.0	ND	1.26	ND	ND
4434-N,E,S,W COMP	0-0.5	5/25/2017	1.40	N/A	ND	6.38	9.13	ND	ND	ND	20.5	ND	ND	ND	ND
4436-N,E,S,W COMP	0-0.5	5/25/2017	1.11	N/A	ND	ND	ND	ND	ND	ND	10.1	ND	ND	ND	ND
4438-N,E,S,W COMP	0-0.5	5/25/2017	1.59	N/A	ND	ND	ND	ND	ND	ND	67.5	ND	ND	ND	ND
4440-N,E,S,W COMP	0-0.5	5/25/2017	1.42	N/A	ND	ND	ND	ND	ND	ND	8.91	ND	ND	ND	ND
4442-N,E,S,W COMP	0-0.5	5/25/2017	1.52	N/A	ND	ND	ND	ND	ND	ND	14.5	ND	ND	ND	ND
4444-N,E,S,W COMP	0-0.5	5/25/2017	2.01	N/A	ND	3.35	ND	ND	ND	ND	17.3	ND	ND	ND	ND
4446-N,E,S,W COMP	0-0.5	5/25/2017	1.44	N/A	ND	ND	5.18	ND	ND	ND	23.5	ND	ND	ND	ND
4450-N,E-comp	0-0.5	5/24/2017	3.08	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.76	ND
4451-N,E,S,W-comp	0-0.5	5/24/2017	2.84	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4452-N,E,S,W-comp	0-0.5	5/24/2017	2.45	N/A	ND	1.54	ND	ND	ND	ND	ND	ND	ND	ND	ND
4453-N,S,W-comp	0-0.5	5/24/2017	2.26	N/A	ND	2.71	ND	ND	ND	ND	1.09	ND	ND	ND	ND
4456-N,E,S,W-comp	0-0.5	5/24/2017	1.85	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4457-N,E,S,W-comp	0-0.5	5/24/2017	2.97	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4458-N,S,W-comp	0-0.5	5/24/2017	2.24	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4466-N,E,S,W-comp	0-0.5	5/24/2017	2.14	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4467-N,E,S,W-comp	0-0.5	5/24/2017	2.92	N/A	ND	1.60	ND	ND	ND	ND	1.78	ND	ND	ND	ND
4469-N,E,S,W COMP	0-0.5	5/24/2017	2.62	N/A	ND	1.50	ND	ND	ND	ND	1.38	ND	ND	ND	ND
4471-N,E,S,W COMP	0-0.5	5/24/2017	2.83	N/A	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4472-N,E,S,W COMP	0-0.5	5/24/2017	2.44	N/A	ND	ND	ND	ND	ND	ND	4.89	ND	ND	ND	ND
4480-N,E,S,W-comp	0-0.5	5/24/2017	3.2	5.25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4481-N,E,S COMP	0-0.5	5/24/2017	1.83	4.04	ND	3.72	ND	ND	ND	ND	3.46	ND	ND	ND	ND
4483-N,E,S,W COMP	0-0.5	5/24/2017	1.19	6.48	ND	3.71	ND	ND	ND	ND	ND	3.00	ND	ND	ND
4550-N,E,S,W COMP	0-0.5	5/24/2017	1.38	N/A	ND	11.0	13.7	ND	ND	ND	99.2	ND	ND	ND	ND
4560-N,E,S,W COMP	0-0.5	5/25/2017	1.27	N/A	ND	ND	5.27	ND	ND	ND	54.6	ND	ND	ND	ND
RSL - EPA Region IX Regional Screening Levels for Residential Soil (May 2016)			0.68	400	2,300	2,000	1,900	1,700	NR	NR	34	NR	70	130	NR
ESL (Soil Summary, Residential; Feb 2016 Rev 3) - RWQCB			0.067	80	2700	1900	1900	480	NR	NR	38	NR	67	140	NR
ESL (Soil Summary, Commercial; Feb 2016 Rev 3) - RWQCB			0.31	320	12000	8500	8500	2200	NR	NR	170	NR	300	600	NR

* Concentrations are within background levels (12 mg/kg)

NR - Not Reported

N/A - Not Analyzed

ND - Not detected above laboratory reporting limit

mg/Kg=Milligrams per Kilogram

µg/Kg=Micrograms per Kilogram

TABLE B
Laboratory Results Summary - Soil Around Former USTs

SAMPLE	DEPTH (FT)	DATE	VOCs µg/Kg	Total Petroleum Hydrocarbons		
				GASOLINE	DIESEL	MOTOR OIL
				µg/Kg	mg/Kg	mg/Kg
S1	10	5/31/2017	ND	ND	ND	ND
S2	5	5/31/2017	ND	ND	2.56	ND
S3	5	5/31/2017	ND	ND	3.14	ND
RSL - EPA Region 9 Regional Screening Levels for Residential Soil (				82	96	2,500
ESL (Tier 1; Feb 2016 Rev 3) - RWQCB				100	230	5,100

ND - Not detected above laboratory reporting limit

mg/Kg=Milligrams per Kilogram

µg/Kg=Micrograms per Kilogram

TABLE C
Laboratory Results Summary - Soil Gas

Sample ID	Sample Date	VOCs																				TPH		
		Benzene	Acetone	Carbon disulfide	Carbon Tetrachloride	Naphthalene	Toulene	Hexane	4-Methyl-2-Pentanone (MIBK)	2-Butanone (MEK)	4-Ethyl Toluene	Ethyl acetate	Ethyl benzene	Tert-Butanol	Tetrahydrofuran	2-Hexanone	2-Propanol (Isopropyl Alcohol)	Total Xylene (-p, -m, -o)	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	Chloroform	Other VOCs	TPH-Gasoline
		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³
SG-1	6/1/2017	<2.6	35	<2.2	<6.5	<7.5	6	<2.7	<4.4	4	<3.2	<2.8	<3.7	<3.6	<2.6	11	<7.5	21	<3.5	<1.8	13	<5.7	ND	298
SG-2	5/31/2017	6	110	3	<4.0	<4.6	12	8	6	21	3	4	4	13	4	13	<4.6	24	3	1	14	17	ND	327
SG-3	5/31/2017	3	66	<1.6	7	<2.6	8	<1.8	6	13	3	<1.8	3	15	<1.5	7	<12	22	<2.5	<2.5	13	19	ND	615
SG-4	6/1/2017	<1.6	23	<1.6	<3.1	3	2	<1.8	<2.1	4	<2.5	<1.8	<2.2	2	<1.5	2	<12	5	<2.5	<2.5	6	<2.4	ND	224
SG-5	6/1/2017	<1.6	340	<1.6	<3.1	<2.6	26	<1.8	2	4	14	<1.8	220	12	3	<2.1	<12	1640	15	6	13	3	ND	1,580
SG-6	6/1/2017	<1.6	250	<1.6	<3.1	<2.6	7	<1.8	5	49	28	<1.8	26	190	240	13	<12	204	25	9	15	<2.4	ND	771
SG-7	6/1/2017	<1.6	45	<1.6	<3.1	<2.6	3	<1.8	<2.1	6	<2.5	<1.8	21	7	2	2	<12	174	<2.5	<2.5	9	<2.4	ND	363
SG-8	6/1/2017	<1.6	52	3	<3.1	<2.6	4	<1.8	3	8	<2.5	<1.8	13	10	1.7	4	<12	96	<2.5	<2.5	12	<2.4	ND	275
SG-9	6/1/2017	<1.6	29	<1.6	<3.1	<2.6	3	<1.8	2	5	<2.5	<1.8	23	5	<1.5	3	<12	186	<2.5	<2.5	11	<2.4	ND	289
SG-10	6/1/2017	14	2900	12	<3.1	<2.6	73	19	96	23	<2.5	<1.8	1600	15	<1.5	16	26	9800	34	10	6	<2.4	ND	16,000
DTSC Modified Screening Levels, Residential; September 2015 with an attenuation factor of 0.001 for future residential land use.		97	NR	NR	67	NR	3.10E+05	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	4.20E+04	1.20E+05	NR	---	NR
RSL - EPA Region 9 Regional Screening Levels for Indoor Air (May 2016) with an attenuation factor of 0.001 for future residential land use.		360	32,000,000	730,000	470	83	5,200,000	730,000	3,100,000	5,200,000	NR	73,000	1,100	NR	2,100,000	31,000	210,000	100,000	7,300	NR	NR	120	---	31,000

ND - Not detected above laboratory reporting limit
µg/m3 - Micrograms per cubic meter
NR - Not Reported

APPENDIX A

Laboratory Analysis Report



Engeo Inc (SJ)
6399 San Ignacio Ave, Suite 150
San Jose, California 95119
Tel: 408-574-4900/Scott cell:925-570-5855
Fax: 888-279-2698

RE: Fort Ord-Surplus II and adjacent Area

Work Order No.: 1705182

Dear Scott Johns:

Torrent Laboratory, Inc. received 68 sample(s) on May 24, 2017 for the analyses presented in the following Report.

As requested on the Chain of Custody, 68 samples were combined into 10 4:1 point composites, three 3:1 point composites and one 2:1 point composite for analysis.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Patti L. Sandroock", is written over a light blue grid background.

Patti L Sandroock
QA Officer

May 30, 2017

Date



Date: 5/30/2017

Client: Engeo Inc (SJ)

Project: Fort Ord-Surplus II and adjacent Area

Work Order: 1705182

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Analytical Comments for method Met_S_6020AsPb, 1705182-069A MS/MSD, QC Analytical Preparation ID 7050, Note: The % recoveries for Arsenic are outside of laboratory control limits (high bias) but % RPD is within limits. A Post Digestion Spike was analyzed and recovered within acceptance criteria. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 05/24/17

Date Reported: 05/30/17

4454-N, E, S, W-comp

1705182-069

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.04	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	5.94	ug/Kg
Endrin Aldehyde	SW8081B	4	0.60	8.0	9.04	ug/Kg

4453-N, S, W-comp

1705182-070

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.26	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	2.71	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	1.09	ug/Kg

4452-N, E, S, W-comp

1705182-071

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.45	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	1.54	ug/Kg

4451-N, E, S, W-comp

1705182-072

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.84	mg/Kg

4450-N, E-comp

1705182-073

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	3.08	mg/Kg
Heptachlor	SW8081B	4	0.42	8.0	5.76	ug/Kg

4418-N, E, S, W-comp

1705182-074

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.59	mg/Kg
Dieldrin	SW8081B	20	3.0	40	19.3	ug/Kg

4408-N, E, S, W-comp

1705182-075

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.86	mg/Kg
Dieldrin	SW8081B	20	3.0	40	16.5	ug/Kg



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 05/24/17

Date Reported: 05/30/17

4423-N, E, W-comp

1705182-076

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.24	mg/Kg
Lead	6020A	1	0.054	1.0	15.1	mg/Kg
4,4-DDE	SW8081B	20	3.9	40	8.02	ug/Kg
Dieldrin	SW8081B	20	3.0	40	7.16	ug/Kg

4421-N, E, S, W-comp

1705182-077

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.31	mg/Kg
Lead	6020A	1	0.054	1.0	13.8	mg/Kg

4420-N, E, S, W-comp

1705182-078

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.64	mg/Kg
Lead	6020A	1	0.054	1.0	13.2	mg/Kg
Dieldrin	SW8081B	4	0.59	8.0	16.2	ug/Kg

4214-N, E, S, W-comp

1705182-079

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	3.97	mg/Kg
Lead	6020A	50	0.54	10	237	mg/Kg
gamma-Chlordane	SW8081B	20	3.3	40	11.7	ug/Kg
alpha-Chlordane	SW8081B	20	3.5	40	8.50	ug/Kg
4,4-DDE	SW8081B	20	3.9	40	6.58	ug/Kg
Dieldrin	SW8081B	20	3.0	40	10.1	ug/Kg
4,4-DDD	SW8081B	20	11	40	12.8	ug/Kg
4,4-DDT	SW8081B	20	2.6	40	54.6	ug/Kg
Chlordane	SW8081B	20	42	400	88.4	ug/Kg

4400-S, W-comp

1705182-080

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.37	mg/Kg
Lead	6020A	1	0.054	1.0	22.6	mg/Kg
gamma-Chlordane	SW8081B	10	1.6	20	4.71	ug/Kg
alpha-Chlordane	SW8081B	10	1.7	20	4.92	ug/Kg
4,4-DDE	SW8081B	10	1.9	20	29.9	ug/Kg
Dieldrin	SW8081B	10	1.5	20	8.38	ug/Kg
4,4-DDT	SW8081B	10	1.3	20	42.8	ug/Kg
Chlordane	SW8081B	10	21	200	65.3	ug/Kg



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 05/24/17

Date Reported: 05/30/17

4405-N, E, W-comp

1705182-081

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.50	mg/Kg
Lead	6020A	1	0.054	1.0	6.43	mg/Kg

4480-N, E, S, W-comp

1705182-082

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	3.20	mg/Kg
Lead	6020A	1	0.054	1.0	5.25	mg/Kg

4467-N, E, S, W-comp

1705182-083

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.92	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	1.60	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	1.78	ug/Kg

4466-N, E, S, W-comp

1705182-084

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.14	mg/Kg

4458-N, S, W-comp

1705182-085

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.24	mg/Kg

4457-N, E, S, W-comp

1705182-086

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.97	mg/Kg

4456-N, E, S, W-comp

1705182-087

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.85	mg/Kg



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4454-N, E, S, W-comp	Lab Sample ID:	1705182-069A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.04		mg/Kg	05/26/17	15:12	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/24/17 2:15:00PM
Prep Batch ID:	7019	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	5.94	J	ug/Kg	05/26/17	0:44	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	9.04		ug/Kg	05/26/17	0:44	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	0:44	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	0:44	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	0:44	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	82.6	%	05/26/17	0:44	LA	424380
DCBP (S)	SW8081B		48 - 135	107	%	05/26/17	0:44	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4453-N, S, W-comp	Lab Sample ID:	1705182-070A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.26		mg/Kg	05/26/17	15:25	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/24/17 2:15:00PM
Prep Batch ID: 7019	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	2.71	J	ug/Kg	05/26/17	0:57	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	1.09	J	ug/Kg	05/26/17	0:57	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	0:57	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	0:57	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	0:57	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	77.9		%	05/26/17	0:57	LA	424380
DCBP (S)	SW8081B		48 - 135	89.9		%	05/26/17	0:57	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4452-N, E, S, W-comp	Lab Sample ID:	1705182-071A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.45		mg/Kg	05/26/17	15:29	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/24/17 2:15:00PM
Prep Batch ID: 7019	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	1.54	J	ug/Kg	05/26/17	1:11	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	1:11	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	1:11	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	1:11	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	93.5		%	05/26/17	1:11	LA	424380
DCBP (S)	SW8081B		48 - 135	92.8		%	05/26/17	1:11	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4451-N, E, S, W-comp	Lab Sample ID:	1705182-072A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.84		mg/Kg	05/26/17	15:33	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/24/17 2:15:00PM
Prep Batch ID:	7019	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	1:24	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	1:24	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	1:24	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	83.4	%	05/26/17	1:24	LA	424380
DCBP (S)	SW8081B		48 - 135	82.5	%	05/26/17	1:24	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4450-N, E-comp	Lab Sample ID:	1705182-073A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	3.08		mg/Kg	05/26/17	15:38	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	5.76	J	ug/Kg	05/26/17	1:38	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	1:38	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	1:38	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	1:38	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	93.9	%	05/26/17	1:38	LA	424380
DCBP (S)	SW8081B		48 - 135	75.6	%	05/26/17	1:38	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4418-N, E, S, W-comp	Lab Sample ID:	1705182-074A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.59		mg/Kg	05/26/17	15:55	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/26/17	1:52	LA	424380
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/26/17	1:52	LA	424380
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/26/17	1:52	LA	424380
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/26/17	1:52	LA	424380
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/26/17	1:52	LA	424380
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/26/17	1:52	LA	424380
4,4-DDE	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Dieldrin	SW8081B	20	3.0	40	19.3	J	ug/Kg	05/26/17	1:52	LA	424380
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/26/17	1:52	LA	424380
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/26/17	1:52	LA	424380
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/26/17	1:52	LA	424380
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/26/17	1:52	LA	424380
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/26/17	1:52	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	0.000	D	%	05/26/17	1:52	LA	424380
DCBP (S)	SW8081B		48 - 135	0.000	D	%	05/26/17	1:52	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4408-N, E, S, W-comp	Lab Sample ID:	1705182-075A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.86		mg/Kg	05/26/17	15:59	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/26/17	2:05	LA	424380
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/26/17	2:05	LA	424380
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/26/17	2:05	LA	424380
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/26/17	2:05	LA	424380
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/26/17	2:05	LA	424380
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/26/17	2:05	LA	424380
4,4-DDE	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Dieldrin	SW8081B	20	3.0	40	16.5	J	ug/Kg	05/26/17	2:05	LA	424380
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/26/17	2:05	LA	424380
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/26/17	2:05	LA	424380
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/26/17	2:05	LA	424380
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/26/17	2:05	LA	424380
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/26/17	2:05	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	0.000	D	%	05/26/17	2:05	LA	424380
DCBP (S)	SW8081B		48 - 135	0.000	D	%	05/26/17	2:05	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4423-N, E, W-comp	Lab Sample ID:	1705182-076A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.24		mg/Kg	05/26/17	16:08	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	15.1		mg/Kg	05/30/17	12:07	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/26/17	2:46	LA	424380
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/26/17	2:46	LA	424380
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/26/17	2:46	LA	424380
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/26/17	2:46	LA	424380
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/26/17	2:46	LA	424380
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/26/17	2:46	LA	424380
4,4-DDE	SW8081B	20	3.9	40	8.02	J	ug/Kg	05/26/17	2:46	LA	424380
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Dieldrin	SW8081B	20	3.0	40	7.16	J	ug/Kg	05/26/17	2:46	LA	424380
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/26/17	2:46	LA	424380
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/26/17	2:46	LA	424380
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/26/17	2:46	LA	424380
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/26/17	2:46	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4423-N, E, W-comp	Lab Sample ID:	1705182-076A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/26/17	2:46	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		0.000	D	%	05/26/17	2:46	LA	424380
DCBP (S)	SW8081B		48 - 135		0.000	D	%	05/26/17	2:46	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4421-N, E, S, W-comp	Lab Sample ID:	1705182-077A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.31		mg/Kg	05/26/17	16:12	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	13.8		mg/Kg	05/30/17	12:11	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	3:00	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	3:00	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4421-N, E, S, W-comp	Lab Sample ID:	1705182-077A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	3:00	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		82.4		%	05/26/17	3:00	LA	424380
DCBP (S)	SW8081B		48 - 135		76.0		%	05/26/17	3:00	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4420-N, E, S, W-comp	Lab Sample ID:	1705182-078A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.64		mg/Kg	05/26/17	16:17	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	13.2		mg/Kg	05/30/17	12:15	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	16.2		ug/Kg	05/26/17	3:13	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	3:13	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	3:13	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4420-N, E, S, W-comp	Lab Sample ID:	1705182-078A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	3:13	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		80.9		%	05/26/17	3:13	LA	424380
DCBP (S)	SW8081B		48 - 135		71.1		%	05/26/17	3:13	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4214-N, E, S, W-comp	Lab Sample ID:	1705182-079A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	3.97		mg/Kg	05/26/17	16:21	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	50	0.54	10	237		mg/Kg	05/30/17	12:18	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/26/17	3:27	LA	424380
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/26/17	3:27	LA	424380
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/26/17	3:27	LA	424380
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/26/17	3:27	LA	424380
gamma-Chlordane	SW8081B	20	3.3	40	11.7	J	ug/Kg	05/26/17	3:27	LA	424380
alpha-Chlordane	SW8081B	20	3.5	40	8.50	J	ug/Kg	05/26/17	3:27	LA	424380
4,4-DDE	SW8081B	20	3.9	40	6.58	J	ug/Kg	05/26/17	3:27	LA	424380
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Dieldrin	SW8081B	20	3.0	40	10.1	J	ug/Kg	05/26/17	3:27	LA	424380
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/26/17	3:27	LA	424380
4,4-DDD	SW8081B	20	11	40	12.8	J	ug/Kg	05/26/17	3:27	LA	424380
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/26/17	3:27	LA	424380
4,4-DDT	SW8081B	20	2.6	40	54.6		ug/Kg	05/26/17	3:27	LA	424380
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/26/17	3:27	LA	424380
Chlordane	SW8081B	20	42	400	88.4	J	ug/Kg	05/26/17	3:27	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4214-N, E, S, W-comp	Lab Sample ID:	1705182-079A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/26/17	3:27	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		0.000	D	%	05/26/17	3:27	LA	424380
DCBP (S)	SW8081B		48 - 135		0.000	D	%	05/26/17	3:27	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4400-S, W-comp	Lab Sample ID:	1705182-080A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.37		mg/Kg	05/26/17	16:30	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	22.6		mg/Kg	05/30/17	12:25	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	3:41	LA	424380
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:41	LA	424380
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/26/17	3:41	LA	424380
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/26/17	3:41	LA	424380
gamma-Chlordane	SW8081B	10	1.6	20	4.71	J	ug/Kg	05/26/17	3:41	LA	424380
alpha-Chlordane	SW8081B	10	1.7	20	4.92	J	ug/Kg	05/26/17	3:41	LA	424380
4,4-DDE	SW8081B	10	1.9	20	29.9		ug/Kg	05/26/17	3:41	LA	424380
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Dieldrin	SW8081B	10	1.5	20	8.38	J	ug/Kg	05/26/17	3:41	LA	424380
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	3:41	LA	424380
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/26/17	3:41	LA	424380
4,4-DDT	SW8081B	10	1.3	20	42.8		ug/Kg	05/26/17	3:41	LA	424380
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/26/17	3:41	LA	424380
Chlordane	SW8081B	10	21	200	65.3	J	ug/Kg	05/26/17	3:41	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4400-S, W-comp	Lab Sample ID:	1705182-080A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/26/17	3:41	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		97.9		%	05/26/17	3:41	LA	424380
DCBP (S)	SW8081B		48 - 135		80.3		%	05/26/17	3:41	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4405-N, E, W-comp	Lab Sample ID:	1705182-081A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.50		mg/Kg	05/26/17	16:43	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	6.43		mg/Kg	05/30/17	12:29	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	3:54	LA	424380
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:54	LA	424380
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/26/17	3:54	LA	424380
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/26/17	3:54	LA	424380
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	3:54	LA	424380
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/26/17	3:54	LA	424380
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Dieldrin	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	3:54	LA	424380
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/26/17	3:54	LA	424380
4,4-DDT	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/26/17	3:54	LA	424380
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/26/17	3:54	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4405-N, E, W-comp	Lab Sample ID:	1705182-081A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/26/17	3:54	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		96.6		%	05/26/17	3:54	LA	424380
DCBP (S)	SW8081B		48 - 135		101		%	05/26/17	3:54	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4480-N, E, S, W-comp	Lab Sample ID:	1705182-082A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	3.20		mg/Kg	05/26/17	16:47	ERR	424393

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	5.25		mg/Kg	05/30/17	12:40	ERR	424417

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	4:08	LA	424380
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:08	LA	424380
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/26/17	4:08	LA	424380
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/26/17	4:08	LA	424380
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:08	LA	424380
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/26/17	4:08	LA	424380
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Dieldrin	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	4:08	LA	424380
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/26/17	4:08	LA	424380
4,4-DDT	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/26/17	4:08	LA	424380
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/26/17	4:08	LA	424380



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4480-N, E, S, W-comp	Lab Sample ID:	1705182-082A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/26/17	4:08	LA	424380
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		86.5		%	05/26/17	4:08	LA	424380
DCBP (S)	SW8081B		48 - 135		81.3		%	05/26/17	4:08	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4467-N, E, S, W-comp	Lab Sample ID:	1705182-083A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.92		mg/Kg	05/26/17	16:51	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	1.60	J	ug/Kg	05/26/17	4:21	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	1.78	J	ug/Kg	05/26/17	4:21	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	4:21	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	4:21	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	4:21	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	88.1	%	05/26/17	4:21	LA	424380
DCBP (S)	SW8081B		48 - 135	73.6	%	05/26/17	4:21	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4466-N, E, S, W-comp	Lab Sample ID:	1705182-084A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/25/17 1:00:00PM
Prep Batch ID:	7050	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.14		mg/Kg	05/26/17	16:56	ERR	424393

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/25/17 5:21:00PM
Prep Batch ID:	7028	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	4:35	LA	424380
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:35	LA	424380
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/26/17	4:35	LA	424380
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/26/17	4:35	LA	424380
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/26/17	4:35	LA	424380
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/26/17	4:35	LA	424380
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Dieldrin	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/26/17	4:35	LA	424380
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/26/17	4:35	LA	424380
4,4-DDT	SW8081B	10	1.3	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/26/17	4:35	LA	424380
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/26/17	4:35	LA	424380
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/26/17	4:35	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	94.2	%	05/26/17	4:35	LA	424380
DCBP (S)	SW8081B		48 - 135	90.4	%	05/26/17	4:35	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4458-N, S, W-comp	Lab Sample ID:	1705182-085A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.24		mg/Kg	05/26/17	17:04	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	4:49	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	4:49	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	4:49	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		95.3		%	05/26/17	4:49	LA	424380
DCBP (S)	SW8081B		48 - 135		77.5		%	05/26/17	4:49	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4457-N, E, S, W-comp	Lab Sample ID:	1705182-086A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.97		mg/Kg	05/26/17	17:09	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	5:43	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	5:43	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	5:43	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		89.8		%	05/26/17	5:43	LA	424380
DCBP (S)	SW8081B		48 - 135		82.9		%	05/26/17	5:43	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 05/24/17, 3:20 pm
Date Reported: 05/30/17

Client Sample ID:	4456-N, E, S, W-comp	Lab Sample ID:	1705182-087A
Project Name/Location:	Fort Ord-Surplus II and adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/25/17 1:00:00PM
Prep Batch ID: 7050	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.85		mg/Kg	05/26/17	17:13	ERR	424393

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/25/17 5:21:00PM
Prep Batch ID: 7028	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/26/17	5:57	LA	424380
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/26/17	5:57	LA	424380
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/26/17	5:57	LA	424380

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		86.7		%	05/26/17	5:57	LA	424380
DCBP (S)	SW8081B		48 - 135		78.5		%	05/26/17	5:57	LA	424380

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



MB Summary Report

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/24/17	Prep Batch:	7019
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/25/2017	Analytical Batch:	424379
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4-DDE	0.19	2.0	ND	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			93.1	
DCBP (S)			91.0	



MB Summary Report

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/25/17	Prep Batch:	7028
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/25/2017	Analytical Batch:	424380
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4-DDE	0.19	2.0	ND	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			94.0	
DCBP (S)			90.4	

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	05/25/17	Prep Batch:	7050
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/26/2017	Analytical Batch:	424393
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Arsenic	0.21	1.0	ND	



MB Summary Report

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	05/25/17	Prep Batch:	7050
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424417
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Lead	0.054	1.0	0.084		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/24/17	Prep Batch:	7019
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/25/2017	Analytical Batch:	424379
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	112	102	9.84	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	106	95.7	9.69	40 - 130	30	
Aldrin	0.20	2.0	ND	40	110	98.9	10.3	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	106	94.3	11.3	60 - 130	30	
Endrin	0.19	2.0	ND	40	111	98.7	11.7	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	117	103	13.4	45 - 140	30	
TCMX (S)				100	94.4	87.8		48 - 125		
DCBP (S)				100	101	98.1		48 - 135		

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/25/17	Prep Batch:	7028
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/26/2017	Analytical Batch:	424380
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	109	109	0.460	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	104	105	0.000	40 - 130	30	
Aldrin	0.20	2.0	ND	40	107	106	0.705	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	103	103	0.485	60 - 130	30	
Endrin	0.19	2.0	ND	40	114	114	0.220	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	115	114	1.10	45 - 140	30	
TCMX (S)				100	90.9	89.5		48 - 125		
DCBP (S)				100	90.0	95.1		48 - 135		

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	05/25/17	Prep Batch:	7050
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424393
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	ND	25	89.4	85.7	4.12	80 - 120	30	
Lead	0.054	1.0	0.084	25	98.1	105	6.32	80 - 120	30	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1705182	Prep Method:	3546_OCP	Prep Date:	05/25/17	Prep Batch:	7028
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/26/2017	Analytical Batch:	424380
Spiked Sample:	1705182-087A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.636	8.00	ND	40	87.1	93.9	7.18	25 - 135	30	
Heptachlor	0.420	8.00	ND	40	91.9	97.5	6.08	40 - 130	30	
Aldrin	0.780	8.00	ND	40	78.4	83.2	6.19	25 - 140	30	
Dieldrin	0.592	8.00	ND	40	79.6	84.9	6.69	60 - 130	30	
Endrin	0.752	8.00	ND	40	90.1	92.1	2.20	55 - 135	30	
4,4-DDT	0.516	8.00	ND	40	110	110	0.454	45 - 140	30	
TCMX (S)				100	83.5	90.7		48 - 125		
DCBP (S)				100	78.9	76.6		48 - 135		

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	05/25/17	Prep Batch:	7050
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	May 26	Analytical Batch:	424393
Spiked Sample:	1705182-069A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	2.04	25	126	133	5.23	71.0 - 121	30	S



Duplicate QC Summary Report

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	5/25/2017	Prep Batch:	7050
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/26/17	Analytical Batch:	424393
Units:						Lab Sample ID:	1705182-073A-DUP-7050

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Arsenic	0.21	1.0	3.08	2.50	20.90	

Work Order:	1705182	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/30/17	Analytical Batch:	424417
Units:						Lab Sample ID:	1705182-079Ax50-DUP-4244 17

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Lead	0.54	10	237	217	8.62	

Work Order:	1705182	Prep Method:	6020S-P	Prep Date:	5/25/2017	Prep Batch:	7050
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/26/17	Analytical Batch:	424393
Units:						Lab Sample ID:	1705182-084A-DUP-7050

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Arsenic	0.21	1.0	2.14	1.80	17.30	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank D - Surrogate is not recoverable due to the necessary dilution of the sample E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated. H- Indicates that the recommended holding time for the analyte or compound has been exceeded J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative NA - Not Analyzed N/A - Not Applicable ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL. NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Engeo Inc (SJ)

Date and Time Received: 5/24/2017 3:20:00PM

Project Name: Fort Ord-Surplus II and adjacent Area

Received By: Navin Ghodasara

Work Order No.: 1705182

Physically Logged By: Navin Ghodasara

Checklist Completed By:

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
Shipping Container/Cooler In Good Condition?	<u>Yes</u>
Samples in proper container/bottle?	<u>Yes</u>
Samples containers intact?	<u>Yes</u>
Sufficient sample volume for indicated test?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>	
Container/Temp Blank temperature in compliance?	<u>Yes</u>	Temperature: 8.0 °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>	
Water-pH acceptable upon receipt?	<u>N/A</u>	
pH Checked by: na	pH Adjusted by: na	

Comments:



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-001A	4454-N	05/24/17 8:19	Soil	11/20/17			Composite	
1705182-002A	4454-E	05/24/17 8:17	Soil	11/20/17			Composite	
1705182-003A	4454-S	05/24/17 8:15	Soil	11/20/17			Composite	
1705182-004A	4454-W	05/24/17 8:22	Soil	11/20/17			Composite	
1705182-005A	4453-N	05/24/17 11:22	Soil	11/20/17			Composite	
1705182-006A	4453-S	05/24/17 11:29	Soil	11/20/17			Composite	
1705182-007A	4453-W	05/24/17 11:26	Soil	11/20/17			Composite	
1705182-008A	4452-N	05/24/17 9:55	Soil	11/20/17			Composite	
1705182-009A	4452-E	05/24/17 9:53	Soil	11/20/17			Composite	
1705182-010A	4452-S	05/24/17 10:01	Soil	11/20/17			Composite	
1705182-011A	4452-W	05/24/17 9:58	Soil	11/20/17			Composite	
1705182-012A	4451-N	05/24/17 9:40	Soil	11/20/17			Composite	
1705182-013A	4451-E	05/24/17 9:37	Soil	11/20/17			Composite	
1705182-014A	4451-S	05/24/17 9:45	Soil	11/20/17			Composite	
1705182-015A	4451-W	05/24/17 9:42	Soil	11/20/17			Composite	
1705182-016A	4450-N	05/24/17 9:25	Soil	11/20/17			Composite	
1705182-017A	4450-E	05/24/17 9:27	Soil	11/20/17			Composite	
1705182-018A	4418-N	05/24/17 9:11	Soil	11/20/17			Composite	
1705182-019A	4418-E	05/24/17 9:09	Soil	11/20/17			Composite	



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-020A	4418-S	05/24/17 9:07	Soil	11/20/17			Composite	
1705182-021A	4418-W	05/24/17 9:05	Soil	11/20/17			Composite	
1705182-022A	4408-N	05/24/17 8:53	Soil	11/20/17			Composite	
1705182-023A	4408-E	05/24/17 9:00	Soil	11/20/17			Composite	
1705182-024A	4408-S	05/24/17 8:57	Soil	11/20/17			Composite	
1705182-025A	4408-W	05/24/17 8:55	Soil	11/20/17			Composite	
1705182-026A	4423-E	05/24/17 10:59	Soil	11/20/17			Composite	
1705182-027A	4423-N	05/24/17 10:57	Soil	11/20/17			Composite	
1705182-028A	4423-W	05/24/17 10:55	Soil	11/20/17			Composite	
1705182-029A	4454-N	05/24/17	Soil	11/20/17			Composite	
1705182-030A	4421-E	05/24/17 10:29	Soil	11/20/17			Composite	
1705182-031A	4421-S	05/24/17 10:27	Soil	11/20/17			Composite	
1705182-032A	4421-W	05/24/17	Soil	11/20/17			Composite	
1705182-033A	4420-N	05/24/17 10:41	Soil	11/20/17			Composite	
1705182-034A	4420-E	05/24/17 10:44	Soil	11/20/17			Composite	
1705182-035A	4420-S	05/24/17 10:45	Soil	11/20/17			Composite	
1705182-036A	4420-W	05/24/17 10:47	Soil	11/20/17			Composite	
1705182-037A	4214-N	05/24/17 11:46	Soil	11/20/17			Composite	
1705182-038A	4214-E	05/24/17 11:44	Soil	11/20/17			Composite	



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-039A	4214-S	05/24/17 11:43	Soil	11/20/17			Composite	
1705182-040A	4214-W	05/24/17 11:41	Soil	11/20/17			Composite	
1705182-041A	4400-S	05/24/17 11:57	Soil	11/20/17			Composite	
1705182-042A	4400-W	05/24/17 11:56	Soil	11/20/17			Composite	
1705182-043A	4405-N	05/24/17 13:14	Soil	11/20/17			Composite	
1705182-044A	4405-E	05/24/17 13:12	Soil	11/20/17			Composite	
1705182-045A	4405-W	05/24/17 13:16	Soil	11/20/17			Composite	
1705182-046A	4480-N	05/24/17 12:58	Soil	11/20/17			Composite	
1705182-047A	4480-E	05/24/17 12:56	Soil	11/20/17			Composite	
1705182-048A	4480-S	05/24/17 13:02	Soil	11/20/17			Composite	
1705182-049A	4480-W	05/24/17 13:00	Soil	11/20/17			Composite	
1705182-050A	4467-N	05/24/17 12:45	Soil	11/20/17			Composite	
1705182-051A	4467-E	05/24/17 12:40	Soil	11/20/17			Composite	
1705182-052A	4467-S	05/24/17 12:41	Soil	11/20/17			Composite	
1705182-053A	4467-W	05/24/17 12:43	Soil	11/20/17			Composite	
1705182-054A	4466-N	05/24/17 12:34	Soil	11/20/17			Composite	
1705182-055A	4466-E	05/24/17 12:28	Soil	11/20/17			Composite	
1705182-056A	4466-S	05/24/17 12:30	Soil	11/20/17			Composite	
1705182-057A	4466-W	05/24/17 12:32	Soil	11/20/17			Composite	



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-058A	4458-N	05/24/17 8:44	Soil	11/20/17			Composite	
1705182-059A	4458-S	05/24/17 8:38	Soil	11/20/17			Composite	
1705182-060A	4458-W	05/24/17 8:41	Soil	11/20/17			Composite	
1705182-061A	4457-N	05/24/17 7:45	Soil	11/20/17			Composite	
1705182-062A	4457-E	05/24/17 7:43	Soil	11/20/17			Composite	
1705182-063A	4457-S	05/24/17 7:40	Soil	11/20/17			Composite	
1705182-064A	4457-W	05/24/17 7:55	Soil	11/20/17			Composite	
1705182-065A	4456-N	05/24/17 7:55	Soil	11/20/17			Composite	
1705182-066A	4456-E	05/24/17 7:57	Soil	11/20/17			Composite	
1705182-067A	4456-S	05/24/17 8:00	Soil	11/20/17			Composite	
1705182-068A	4456-W	05/24/17 8:02	Soil	11/20/17			Composite	
1705182-069A	4454-N, E, S, W-comp	05/24/17	Soil	11/20/17			Composite Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-070A	4453-N, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 3:1. OCPs, As -6020							
1705182-071A	4452-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-072A	4451-N, E, S, W-comp	05/24/17	Soil	11/20/17				



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
							Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-073A	4450-N, E-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
1705182-074A	4418-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-075A	4408-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As -6020							
1705182-076A	4423-N, E, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 3:1. OCPs, As &Pb --6020							
1705182-077A	4421-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As & Pb-6020							
1705182-078A	4420-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As &Pb --6020							
1705182-079A	4214-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As &Pb --6020							
1705182-080A	4400-S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 2:1. OCPs, As &Pb --6020							



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord-Surplus II and adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/30/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/24/2017
Time Received: 3:20 pm

Comments:

Work Order # : **1705182**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705182-081A	4405-N, E, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 3:1. OCPs, As &Pb --6020							
1705182-082A	4480-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As &Pb --6020							
1705182-083A	4467-N, E, S, W-comp	05/24/17	Soil	11/20/17			Met_S_6020AsPb Pest_S_8081OCP	
<u>Sample Note:</u>	Comp 4:1. OCPs, As --6020							
1705182-084A	4466-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As --6020							
1705182-085A	4458-N, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 3:1. OCPs, As --6020							
1705182-086A	4457-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As --6020							
1705182-087A	4456-N, E, S, W-comp	05/24/17	Soil	11/20/17			Pest_S_8081OCP Met_S_6020AsPb	
<u>Sample Note:</u>	Comp 4:1. OCPs, As --6020							

1705182

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area		OCPS (8081) Arsenic (6020) Lead (6020)												REMARKS REQUIRED DETECTION LIMITS	
SAMPLED BY (SIGNATURE/PRINT) <i>[Signature]</i>		PROJECT MANAGER: Scott Johns															
ROUTING: E-MAIL sjohns@engeo.com		Hard Copy NA															
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE											
4454- N	5/24/17	8:19	Soil	1	Liner/Jar	NA/ICE	XX } -069A										4 PT Comp
4454- E	1	8:17	Soil	1	Liner/Jar	NA/ICE											
4454- S	1	8:15	Soil	1	Liner/Jar	NA/ICE											
4454- W	1	8:22	Soil	1	Liner/Jar	NA/ICE											
4453- N	1	11:22	Soil	1	Liner/Jar	NA/ICE	XX } -070A										3 PT Comp
4453- E			Soil	1	Liner/Jar	NA/ICE											
4453- S	5/24/17	11:29	Soil	1	Liner/Jar	NA/ICE											
4453- W	1	11:26	Soil	1	Liner/Jar	NA/ICE											
4452- N	1	9:55	Soil	1	Liner/Jar	NA/ICE	XX } -071A										4 PT Comp
4452- E	1	9:53	Soil	1	Liner/Jar	NA/ICE											
4452- S	1	10:01	Soil	1	Liner/Jar	NA/ICE											
4452- W	1	9:58	Soil	1	Liner/Jar	NA/ICE											
4451- N	1	9:40	Soil	1	Liner/Jar	NA/ICE	XX } -072A										4 PT Comp
4451- E	1	9:37	Soil	1	Liner/Jar	NA/ICE											
4451- S	1	9:45	Soil	1	Liner/Jar	NA/ICE											
4451- W	1	9:42	Soil	1	Liner/Jar	NA/ICE											
4450- N	1	9:25	Soil	1	Liner/Jar	NA/ICE	XX } -073A										2 PT Comp
4450- E	1	9:27	Soil	1	Liner/Jar	NA/ICE											
4450- S	TL		Soil	1	Liner/Jar	NA/ICE											
4450- W	TL		Soil	1	Liner/Jar	NA/ICE											
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>			DATE/TIME 5/24/17 14:06		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>			RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>			DATE/TIME 5/24 3:20		RECEIVED BY: (SIGNATURE) NAVIN G				
RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)			RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)				
RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE/TIME		REMARKS 3 Day TAT Composite samples as noted.							
RELINQUISHED BY: (SIGNATURE)			DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE/TIME		REMARKS							



CHAIN OF CUSTODY RECORD

1705182

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area					OCPs (8081)	Arsenic (6020)	Lead (6020)											REMARKS REQUIRED DETECTION LIMITS
SAMPLED BY (SIGNATURE/PRINT) <i>[Signature]</i>		Travis Chatters																		
PROJECT MANAGER: Scott Johns																				
ROUTING: E-MAIL <i>sjohns@engeo.com</i>		Hard Copy NA																		
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE														
018A 4418-N	5/24/17	9:11	Soil	1	Liner/Jar	NA/ICE	XX	}	-074A									4 PT Comp		
019A 4418-E		9:09	Soil	1	Liner/Jar	NA/ICE														
020A 4418-S		9:07	Soil	1	Liner/Jar	NA/ICE														
021A 4418-W		9:05	Soil	1	Liner/Jar	NA/ICE														
022A 4408-N		8:53	Soil	1	Liner/Jar	NA/ICE	XX	}	-075A									4 PT Comp		
023A 4408-E		9:00	Soil	1	Liner/Jar	NA/ICE														
024A 4408-S		8:57	Soil	1	Liner/Jar	NA/ICE														
025A 4408-W		8:55	Soil	1	Liner/Jar	NA/ICE														
4422-N			Soil	1	Liner/Jar	NA/ICE	XX	}	-76A									3 PT Comp		
026A 4423-E	5/24/17	10:59	Soil	1	Liner/Jar	NA/ICE														
027A 4423-EN		10:57	Soil	1	Liner/Jar	NA/ICE														
028A 4423-W		10:55	Soil	1	Liner/Jar	NA/ICE														
029A 4421-N		10:30	Soil	1	Liner/Jar	NA/ICE	XX	}	-077A									4 PT Comp		
030A 4421-E		10:29	Soil	1	Liner/Jar	NA/ICE														
031A 4421-S		11:27	Soil	1	Liner/Jar	NA/ICE														
032A 4421-W		10:25	Soil	1	Liner/Jar	NA/ICE														
033A 4420-N		10:41	Soil	1	Liner/Jar	NA/ICE	XX	}	-078A									4 PT Comp		
034A 4420-E		10:45	Soil	1	Liner/Jar	NA/ICE														
035A 4420-S		10:45	Soil	1	Liner/Jar	NA/ICE														
036A 4420-W		10:47	Soil	1	Liner/Jar	NA/ICE														
RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>		DATE/TIME 5/24/17 14:06		RECEIVED BY (SIGNATURE) <i>[Signature]</i>		RELINQUISHED BY (SIGNATURE) <i>[Signature]</i>		DATE/TIME 5/24/17 3:20		RECEIVED BY (SIGNATURE) NAVIN G										
RELINQUISHED BY (SIGNATURE)		DATE/TIME		RECEIVED BY (SIGNATURE)		RELINQUISHED BY (SIGNATURE)		DATE/TIME		RECEIVED BY (SIGNATURE)										
RELINQUISHED BY (SIGNATURE)		DATE/TIME		RECEIVED FOR LABORATORY BY (SIGNATURE)		DATE/TIME		REMARKS												
								3 Day TAT Composite samples as noted.												

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1705182

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area		OCPs (8081)		Arsenic (6020)		Lead (6020)		REMARKS REQUIRED DETECTION LIMITS			
SAMPLED BY: (SIGNATURE/PRINT) Trevis Chatters													
PROJECT MANAGER: Scott Johns													
ROUTING: E-MAIL sjohns@engeo.com				Hard Copy		NA							
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE							
050A	4467- N	5/24/17	12:45	Soil	1	Liner/Jar	NA/ICE	XX			4 PT Comp		
051A	4467- E		12:40	Soil	1	Liner/Jar	NA/ICE	XX					
052A	4467- S		12:41	Soil	1	Liner/Jar	NA/ICE	XX					
053A	4467- W		12:43	Soil	1	Liner/Jar	NA/ICE	XX					
054A	4466- N		12:34	Soil	1	Liner/Jar	NA/ICE	XX			4 PT Comp		
055A	4466- E		12:28	Soil	1	Liner/Jar	NA/ICE	XX					
056A	4466- S		12:30	Soil	1	Liner/Jar	NA/ICE	XX					
057A	4466- W		12:32	Soil	1	Liner/Jar	NA/ICE	XX					
058A	4458- N		8:44	Soil	1	Liner/Jar	NA/ICE	XX			3 PT Comp		
	4458- E			Soil	1	Liner/Jar	NA/ICE	XX					
059A	4458- S	5/24/17	8:38	Soil	1	Liner/Jar	NA/ICE	XX					
060A	4458- W		8:41	Soil	1	Liner/Jar	NA/ICE	XX					
061A	4457- N		7:45	Soil	1	Liner/Jar	NA/ICE	XX			4 PT Comp		
062A	4457- E		7:43	Soil	1	Liner/Jar	NA/ICE	XX					
063A	4457- S		7:40	Soil	1	Liner/Jar	NA/ICE	XX					
064A	4457- W		7:48	Soil	1	Liner/Jar	NA/ICE	XX					
065A	4456- N		7:55	Soil	1	Liner/Jar	NA/ICE	XX			4 PT Comp		
066A	4456- E		7:57	Soil	1	Liner/Jar	NA/ICE	XX					
067A	4456- S		8:00	Soil	1	Liner/Jar	NA/ICE	XX					
068A	4456- W		8:02	Soil	1	Liner/Jar	NA/ICE	XX					
RELINQUISHED BY: (SIGNATURE) [Signature]				DATE/TIME 5/24/17 14:06		RECEIVED BY: (SIGNATURE) [Signature]		RELINQUISHED BY: (SIGNATURE) [Signature]		DATE/TIME 5/24 3:20		RECEIVED BY: (SIGNATURE) NAVIN G [Signature]	
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME		RECEIVED BY: (SIGNATURE)	
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS 3 Day TAT Composite samples as noted.			



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Engeo (San Ramon)
2010 Crow Canyon Place, #250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199
RE: Fort Ord - Surplus II and Adjacent Area

Work Order No.: 1705192

Dear Scott Johns:

Torrent Laboratory, Inc. received 66 sample(s) on May 25, 2017 for the analyses presented in the following Report.

As requested on the Chain of Custody, 66 samples were combined into 15 4:1 point composites and two 3:1 point composites for analysis.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Patti L. Sandroock", is written over a light blue horizontal line.

Patti L Sandroock
QA Officer

May 31, 2017

Date



Date: 5/31/2017

Client: Engeo (San Ramon)

Project: Fort Ord - Surplus II and Adjacent Area

Work Order: 1705192

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.

Analytical Comments for method Met_S_6020AsPb, 1705192-067 MS, QC Analytical Preparation ID 7076, Note: The % recovery for Arsenic is outside of laboratory control limits but % RPD is within limits. A Post Digestion Spike was analyzed and recovered with acceptance criteria indicating sample heterogeneity rather than matrix interference. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.



Sample Result Summary

Report prepared for: Scott Johns
Engeo (San Ramon)

Date Received: 05/25/17

Date Reported: 05/31/17

4483-N, E, S, W COMP

1705192-067

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.19	mg/Kg
Lead	6020A	1	0.054	1.0	6.48	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	3.71	ug/Kg
Endrin Aldehyde	SW8081B	4	0.60	8.0	3.00	ug/Kg

4481-N, E, S COMP

1705192-068

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.83	mg/Kg
Lead	6020A	1	0.054	1.0	4.04	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	3.72	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	3.46	ug/Kg

4472-N, E, S, W COMP

1705192-069

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.44	mg/Kg
Dieldrin	SW8081B	4	0.59	8.0	4.89	ug/Kg

4471-N, E, S, W COMP

1705192-070

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.83	mg/Kg

4469-N, E, S, W COMP

1705192-071

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.62	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	1.50	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	1.38	ug/Kg

4419-N, S, W COMP

1705192-072

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.27	mg/Kg
Lead	6020A	1	0.054	1.0	11.1	mg/Kg
gamma-Chlordane	SW8081B	4	0.65	8.0	10.5	ug/Kg
alpha-Chlordane	SW8081B	4	0.69	8.0	12.1	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	69.6	ug/Kg
Chlordane	SW8081B	4	8.4	80	106	ug/Kg



Sample Result Summary

Report prepared for: Scott Johns
Engeo (San Ramon)

Date Received: 05/25/17

Date Reported: 05/31/17

4560-N, E, S, W COMP

1705192-073

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.27	mg/Kg
Dieldrin	SW8081B	10	1.5	20	54.6	ug/Kg
4,4-DDT	SW8081B	10	1.3	20	5.27	ug/Kg

4550-N, E, S, W COMP

1705192-074

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.38	mg/Kg
4,4-DDE	SW8081B	20	3.9	40	11.0	ug/Kg
Dieldrin	SW8081B	20	3.0	40	99.2	ug/Kg
4,4-DDT	SW8081B	20	2.6	40	13.7	ug/Kg

4440-N, E, S, W COMP

1705192-075

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.42	mg/Kg
Dieldrin	SW8081B	10	1.5	20	8.91	ug/Kg

4442-N, E, S, W COMP

1705192-076

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.52	mg/Kg
Dieldrin	SW8081B	20	3.0	40	14.5	ug/Kg

4430-N, E, S, W COMP

1705192-077

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.14	mg/Kg
4,4-DDE	SW8081B	10	1.9	20	3.25	ug/Kg
Dieldrin	SW8081B	10	1.5	20	27.8	ug/Kg
4,4-DDT	SW8081B	10	1.3	20	5.93	ug/Kg

4432-N, E, S, W COMP

1705192-078

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.78	mg/Kg
Heptachlor Epoxide	SW8081B	4	0.31	8.0	1.26	ug/Kg
gamma-Chlordane	SW8081B	4	0.65	8.0	37.5	ug/Kg
alpha-Chlordane	SW8081B	4	0.69	8.0	39.8	ug/Kg
4,4-DDE	SW8081B	4	0.78	8.0	2.07	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	37.0	ug/Kg
4,4-DDT	SW8081B	4	0.52	8.0	4.96	ug/Kg
Chlordane	SW8081B	4	8.4	80	327	ug/Kg



Sample Result Summary

Report prepared for: Scott Johns
Engeo (San Ramon)

Date Received: 05/25/17

Date Reported: 05/31/17

4434-N, E, S, W COMP

1705192-079

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.40	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	6.38	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	20.5	ug/Kg
4,4-DDT	SW8081B	4	0.52	8.0	9.13	ug/Kg

4436-N, E, S, W COMP

1705192-080

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.11	mg/Kg
Dieldrin	SW8081B	4	0.59	8.0	10.1	ug/Kg

4438-N, E, S, W COMP

1705192-081

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.59	mg/Kg
Dieldrin	SW8081B	20	3.0	40	67.5	ug/Kg

4444-N, E, S, W COMP

1705192-082

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	2.01	mg/Kg
4,4-DDE	SW8081B	4	0.78	8.0	3.35	ug/Kg
Dieldrin	SW8081B	4	0.59	8.0	17.3	ug/Kg

4446-N, E, S, W COMP

1705192-083

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	6020A	1	0.21	1.0	1.44	mg/Kg
Dieldrin	SW8081B	4	0.59	8.0	23.5	ug/Kg
4,4-DDT	SW8081B	4	0.52	8.0	5.18	ug/Kg



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4483-N, E, S, W COMP	Lab Sample ID:	1705192-067A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.19		mg/Kg	05/30/17	15:09	ERR	424419

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	6.48		mg/Kg	05/30/17	18:52	ERR	424441

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	3.71	J	ug/Kg	05/30/17	18:11	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	3.00	J	ug/Kg	05/30/17	18:11	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	18:11	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	18:11	LA	424443



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4483-N, E, S, W COMP	Lab Sample ID:	1705192-067A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	18:11	LA	424443
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		110		%	05/30/17	18:11	LA	424443
DCBP (S)	SW8081B		48 - 135		118		%	05/30/17	18:11	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4481-N, E, S COMP	Lab Sample ID:	1705192-068A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.83		mg/Kg	05/30/17	15:22	ERR	424419

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	4.04		mg/Kg	05/30/17	19:03	ERR	424441

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	3.72	J	ug/Kg	05/30/17	18:24	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	3.46	J	ug/Kg	05/30/17	18:24	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	18:24	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	18:24	LA	424443



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4481-N, E, S COMP	Lab Sample ID:	1705192-068A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	18:24	LA	424443
			Acceptance Limits								
TCMX (S)	SW8081B		48 - 125		99.0		%	05/30/17	18:24	LA	424443
DCBP (S)	SW8081B		48 - 135		98.2		%	05/30/17	18:24	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4472-N, E, S, W COMP	Lab Sample ID:	1705192-069A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.44		mg/Kg	05/30/17	15:31	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	4.89	J	ug/Kg	05/30/17	18:38	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	18:38	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	18:38	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	18:38	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	112		%	05/30/17	18:38	LA	424443
DCBP (S)	SW8081B		48 - 135	101		%	05/30/17	18:38	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4471-N, E, S, W COMP	Lab Sample ID:	1705192-070A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.83		mg/Kg	05/30/17	15:35	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	18:51	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	18:51	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	18:51	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		105		%	05/30/17	18:51	LA	424443
DCBP (S)	SW8081B		48 - 135		99.8		%	05/30/17	18:51	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4469-N, E, S, W COMP	Lab Sample ID:	1705192-071A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.62		mg/Kg	05/30/17	15:48	ERR	424419

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	1.50	J	ug/Kg	05/30/17	19:05	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	1.38	J	ug/Kg	05/30/17	19:05	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	19:05	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	19:05	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	19:05	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	102		%	05/30/17	19:05	LA	424443
DCBP (S)	SW8081B		48 - 135	97.7		%	05/30/17	19:05	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4419-N, S, W COMP	Lab Sample ID:	1705192-072A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.27		mg/Kg	05/30/17	15:52	ERR	424419

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Lead	6020A	1	0.054	1.0	11.1		mg/Kg	05/30/17	19:10	ERR	424441

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	10.5		ug/Kg	05/30/17	19:19	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	12.1		ug/Kg	05/30/17	19:19	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	69.6		ug/Kg	05/30/17	19:19	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	19:19	LA	424443
Chlordane	SW8081B	4	8.4	80	106		ug/Kg	05/30/17	19:19	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	19:19	LA	424443



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4419-N, S, W COMP	Lab Sample ID:	1705192-072A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Acceptance Limits											
TCMX (S)	SW8081B		48 - 125		104		%	05/30/17	19:19	LA	424443
DCBP (S)	SW8081B		48 - 135		96.2		%	05/30/17	19:19	LA	424443



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4560-N, E, S, W COMP	Lab Sample ID:	1705192-073A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.27		mg/Kg	05/30/17	15:56	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/30/17	19:32	LA	424443
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	19:32	LA	424443
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/30/17	19:32	LA	424443
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/30/17	19:32	LA	424443
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	19:32	LA	424443
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/30/17	19:32	LA	424443
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Dieldrin	SW8081B	10	1.5	20	54.6		ug/Kg	05/30/17	19:32	LA	424443
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	19:32	LA	424443
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/30/17	19:32	LA	424443
4,4-DDT	SW8081B	10	1.3	20	5.27	J	ug/Kg	05/30/17	19:32	LA	424443
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/30/17	19:32	LA	424443
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/30/17	19:32	LA	424443
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/30/17	19:32	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	115		%	05/30/17	19:32	LA	424443
DCBP (S)	SW8081B		48 - 135	131		%	05/30/17	19:32	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4550-N, E, S, W COMP	Lab Sample ID:	1705192-074A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/24/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.38		mg/Kg	05/30/17	16:05	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/30/17	20:13	LA	424443
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/30/17	20:13	LA	424443
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/30/17	20:13	LA	424443
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/30/17	20:13	LA	424443
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/30/17	20:13	LA	424443
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/30/17	20:13	LA	424443
4,4-DDE	SW8081B	20	3.9	40	11.0	J	ug/Kg	05/30/17	20:13	LA	424443
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Dieldrin	SW8081B	20	3.0	40	99.2		ug/Kg	05/30/17	20:13	LA	424443
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/30/17	20:13	LA	424443
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/30/17	20:13	LA	424443
4,4-DDT	SW8081B	20	2.6	40	13.7	J	ug/Kg	05/30/17	20:13	LA	424443
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/30/17	20:13	LA	424443
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/30/17	20:13	LA	424443
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/30/17	20:13	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	0.000	D	%	05/30/17	20:13	LA	424443
DCBP (S)	SW8081B		48 - 135	0.000	D	%	05/30/17	20:13	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4440-N, E, S, W COMP	Lab Sample ID:	1705192-075A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.42		mg/Kg	05/30/17	16:09	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/30/17	20:27	LA	424443
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:27	LA	424443
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/30/17	20:27	LA	424443
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/30/17	20:27	LA	424443
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:27	LA	424443
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/30/17	20:27	LA	424443
4,4-DDE	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Dieldrin	SW8081B	10	1.5	20	8.91	J	ug/Kg	05/30/17	20:27	LA	424443
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	20:27	LA	424443
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/30/17	20:27	LA	424443
4,4-DDT	SW8081B	10	1.3	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/30/17	20:27	LA	424443
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/30/17	20:27	LA	424443
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/30/17	20:27	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		114		%	05/30/17	20:27	LA	424443
DCBP (S)	SW8081B		48 - 135		108		%	05/30/17	20:27	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4442-N, E, S, W COMP	Lab Sample ID:	1705192-076A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.52		mg/Kg	05/30/17	16:14	ERR	424419

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/30/17	20:41	LA	424443
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/30/17	20:41	LA	424443
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/30/17	20:41	LA	424443
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/30/17	20:41	LA	424443
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/30/17	20:41	LA	424443
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/30/17	20:41	LA	424443
4,4-DDE	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Dieldrin	SW8081B	20	3.0	40	14.5	J	ug/Kg	05/30/17	20:41	LA	424443
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/30/17	20:41	LA	424443
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/30/17	20:41	LA	424443
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/30/17	20:41	LA	424443
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/30/17	20:41	LA	424443
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/30/17	20:41	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	0.000	D	%	05/30/17	20:41	LA	424443
DCBP (S)	SW8081B		48 - 135	0.000	D	%	05/30/17	20:41	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4430-N, E, S, W COMP	Lab Sample ID:	1705192-077A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.14		mg/Kg	05/30/17	16:18	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	10	1.3	20	ND		ug/Kg	05/30/17	20:54	LA	424443
gamma-BHC (Lindane)	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:54	LA	424443
beta-BHC	SW8081B	10	3.2	20	ND		ug/Kg	05/30/17	20:54	LA	424443
delta-BHC	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Heptachlor	SW8081B	10	1.1	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Aldrin	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Heptachlor Epoxide	SW8081B	10	0.78	20	ND		ug/Kg	05/30/17	20:54	LA	424443
gamma-Chlordane	SW8081B	10	1.6	20	ND		ug/Kg	05/30/17	20:54	LA	424443
alpha-Chlordane	SW8081B	10	1.7	20	ND		ug/Kg	05/30/17	20:54	LA	424443
4,4-DDE	SW8081B	10	1.9	20	3.25	J	ug/Kg	05/30/17	20:54	LA	424443
Endosulfan I	SW8081B	10	1.8	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Dieldrin	SW8081B	10	1.5	20	27.8		ug/Kg	05/30/17	20:54	LA	424443
Endrin	SW8081B	10	1.9	20	ND		ug/Kg	05/30/17	20:54	LA	424443
4,4-DDD	SW8081B	10	5.7	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Endosulfan II	SW8081B	10	5.8	20	ND		ug/Kg	05/30/17	20:54	LA	424443
4,4-DDT	SW8081B	10	1.3	20	5.93	J	ug/Kg	05/30/17	20:54	LA	424443
Endrin Aldehyde	SW8081B	10	1.5	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Methoxychlor	SW8081B	10	2.0	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Endosulfan Sulfate	SW8081B	10	1.2	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Endrin Ketone	SW8081B	10	0.94	20	ND		ug/Kg	05/30/17	20:54	LA	424443
Chlordane	SW8081B	10	21	200	ND		ug/Kg	05/30/17	20:54	LA	424443
Toxaphene	SW8081B	10	85	500	ND		ug/Kg	05/30/17	20:54	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125		109		%	05/30/17	20:54	LA	424443
DCBP (S)	SW8081B		48 - 135		97.1		%	05/30/17	20:54	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4432-N, E, S, W COMP	Lab Sample ID:	1705192-078A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.78		mg/Kg	05/30/17	16:22	ERR	424419

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	1.26	J	ug/Kg	05/30/17	21:08	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	37.5		ug/Kg	05/30/17	21:08	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	39.8		ug/Kg	05/30/17	21:08	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	2.07	J	ug/Kg	05/30/17	21:08	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	37.0		ug/Kg	05/30/17	21:08	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	4.96	J	ug/Kg	05/30/17	21:08	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	21:08	LA	424443
Chlordane	SW8081B	4	8.4	80	327		ug/Kg	05/30/17	21:08	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	21:08	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	99.7		%	05/30/17	21:08	LA	424443
DCBP (S)	SW8081B		48 - 135	71.0		%	05/30/17	21:08	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4434-N, E, S, W COMP	Lab Sample ID:	1705192-079A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.40		mg/Kg	05/30/17	16:40	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	6.38	J	ug/Kg	05/30/17	21:21	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	20.5		ug/Kg	05/30/17	21:21	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	9.13		ug/Kg	05/30/17	21:21	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	21:21	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	21:21	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	21:21	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	97.9		%	05/30/17	21:21	LA	424443
DCBP (S)	SW8081B		48 - 135	76.4		%	05/30/17	21:21	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4436-N, E, S, W COMP	Lab Sample ID:	1705192-080A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.11		mg/Kg	05/30/17	16:44	ERR	424419

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	10.1		ug/Kg	05/30/17	21:35	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	21:35	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	21:35	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	21:35	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	92.1		%	05/30/17	21:35	LA	424443
DCBP (S)	SW8081B		48 - 135	78.8		%	05/30/17	21:35	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4438-N, E, S, W COMP	Lab Sample ID:	1705192-081A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method:	6020S-P	Prep Batch Date/Time:	5/26/17 5:50:00PM
Prep Batch ID:	7076	Prep Analyst:	BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.59		mg/Kg	05/30/17	16:48	ERR	424419

Prep Method:	3546_OCP	Prep Batch Date/Time:	5/26/17 6:08:00PM
Prep Batch ID:	7063	Prep Analyst:	SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	20	2.5	40	ND		ug/Kg	05/30/17	21:49	LA	424443
gamma-BHC (Lindane)	SW8081B	20	3.2	40	ND		ug/Kg	05/30/17	21:49	LA	424443
beta-BHC	SW8081B	20	6.3	40	ND		ug/Kg	05/30/17	21:49	LA	424443
delta-BHC	SW8081B	20	3.1	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Heptachlor	SW8081B	20	2.1	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Aldrin	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Heptachlor Epoxide	SW8081B	20	1.6	40	ND		ug/Kg	05/30/17	21:49	LA	424443
gamma-Chlordane	SW8081B	20	3.3	40	ND		ug/Kg	05/30/17	21:49	LA	424443
alpha-Chlordane	SW8081B	20	3.5	40	ND		ug/Kg	05/30/17	21:49	LA	424443
4,4-DDE	SW8081B	20	3.9	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endosulfan I	SW8081B	20	3.7	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Dieldrin	SW8081B	20	3.0	40	67.5		ug/Kg	05/30/17	21:49	LA	424443
Endrin	SW8081B	20	3.8	40	ND		ug/Kg	05/30/17	21:49	LA	424443
4,4-DDD	SW8081B	20	11	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endosulfan II	SW8081B	20	12	40	ND		ug/Kg	05/30/17	21:49	LA	424443
4,4-DDT	SW8081B	20	2.6	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endrin Aldehyde	SW8081B	20	3.0	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Methoxychlor	SW8081B	20	4.0	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endosulfan Sulfate	SW8081B	20	2.3	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Endrin Ketone	SW8081B	20	1.9	40	ND		ug/Kg	05/30/17	21:49	LA	424443
Chlordane	SW8081B	20	42	400	ND		ug/Kg	05/30/17	21:49	LA	424443
Toxaphene	SW8081B	20	170	1000	ND		ug/Kg	05/30/17	21:49	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	0.000	D	%	05/30/17	21:49	LA	424443
DCBP (S)	SW8081B		48 - 135	0.000	D	%	05/30/17	21:49	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4444-N, E, S, W COMP	Lab Sample ID:	1705192-082A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	2.01		mg/Kg	05/30/17	16:53	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	3.35	J	ug/Kg	05/30/17	22:03	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	17.3		ug/Kg	05/30/17	22:03	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	22:03	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	22:03	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	22:03	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	104		%	05/30/17	22:03	LA	424443
DCBP (S)	SW8081B		48 - 135	76.3		%	05/30/17	22:03	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo (San Ramon)

Date/Time Received: 05/25/17, 1:10 pm
Date Reported: 05/31/17

Client Sample ID:	4446-N, E, S, W COMP	Lab Sample ID:	1705192-083A
Project Name/Location:	Fort Ord - Surplus II and Adjacent Area	Sample Matrix:	Soil
Project Number:	13847.000.000, ph 002		
Date/Time Sampled:	05/25/17 /		
SDG:			

Prep Method: 6020S-P	Prep Batch Date/Time: 5/26/17 5:50:00PM
Prep Batch ID: 7076	Prep Analyst: BJAY

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Arsenic	6020A	1	0.21	1.0	1.44		mg/Kg	05/30/17	16:57	ERR	424419

Prep Method: 3546_OCP	Prep Batch Date/Time: 5/26/17 6:08:00PM
Prep Batch ID: 7063	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

alpha-BHC	SW8081B	4	0.51	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
gamma-BHC (Lindane)	SW8081B	4	0.64	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
beta-BHC	SW8081B	4	1.3	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
delta-BHC	SW8081B	4	0.62	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Heptachlor	SW8081B	4	0.42	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Aldrin	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Heptachlor Epoxide	SW8081B	4	0.31	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
gamma-Chlordane	SW8081B	4	0.65	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
alpha-Chlordane	SW8081B	4	0.69	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
4,4-DDE	SW8081B	4	0.78	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Endosulfan I	SW8081B	4	0.73	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Dieldrin	SW8081B	4	0.59	8.0	23.5		ug/Kg	05/30/17	22:16	LA	424443
Endrin	SW8081B	4	0.75	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
4,4-DDD	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Endosulfan II	SW8081B	4	2.3	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
4,4-DDT	SW8081B	4	0.52	8.0	5.18	J	ug/Kg	05/30/17	22:16	LA	424443
Endrin Aldehyde	SW8081B	4	0.60	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Methoxychlor	SW8081B	4	0.80	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Endosulfan Sulfate	SW8081B	4	0.47	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Endrin Ketone	SW8081B	4	0.38	8.0	ND		ug/Kg	05/30/17	22:16	LA	424443
Chlordane	SW8081B	4	8.4	80	ND		ug/Kg	05/30/17	22:16	LA	424443
Toxaphene	SW8081B	4	34	200	ND		ug/Kg	05/30/17	22:16	LA	424443

Acceptance Limits

TCMX (S)	SW8081B		48 - 125	88.5		%	05/30/17	22:16	LA	424443
DCBP (S)	SW8081B		48 - 135	75.7		%	05/30/17	22:16	LA	424443

NOTE: Sample diluted due to nature of the matrix (dark, viscous extract)



MB Summary Report

Work Order:	1705192	Prep Method:	3546_OCP	Prep Date:	05/26/17	Prep Batch:	7063
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/30/2017	Analytical Batch:	424427
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.13	2.0	ND	
gamma-BHC (Lindane)	0.16	2.0	ND	
beta-BHC	0.32	2.0	ND	
delta-BHC	0.16	2.0	ND	
Heptachlor	0.11	2.0	ND	
Aldrin	0.20	2.0	ND	
Heptachlor Epoxide	0.078	2.0	ND	
gamma-Chlordane	0.16	2.0	ND	
alpha-Chlordane	0.17	2.0	ND	
4,4-DDE	0.19	2.0	0.383	
Endosulfan I	0.18	2.0	ND	
Dieldrin	0.15	2.0	ND	
Endrin	0.19	2.0	ND	
4,4-DDD	0.57	2.0	ND	
Endosulfan II	0.58	2.0	ND	
4,4-DDT	0.13	2.0	ND	
Endrin Aldehyde	0.15	2.0	ND	
Methoxychlor	0.20	2.0	ND	
Endosulfan Sulfate	0.12	2.0	ND	
Endrin Ketone	0.094	2.0	ND	
Chlordane	2.1	20	ND	
Toxaphene	8.5	50	ND	
TCMX (S)			99.7	
DCBP (S)			84.8	

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	05/26/17	Prep Batch:	7076
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424419
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Arsenic	0.21	1.0	ND	



MB Summary Report

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	05/26/17	Prep Batch:	7076
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424441
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Lead	0.054	1.0	0.070		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1705192	Prep Method:	3546_OCP	Prep Date:	05/26/17	Prep Batch:	7063
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/30/2017	Analytical Batch:	424427
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.16	2.0	ND	40	133	117	12.6	25 - 135	30	
Heptachlor	0.11	2.0	ND	40	125	113	10.3	40 - 130	30	
Aldrin	0.20	2.0	ND	40	130	120	8.00	25 - 140	30	
Dieldrin	0.15	2.0	ND	40	129	115	11.0	60 - 130	30	
Endrin	0.19	2.0	ND	40	122	122	10.3	55 - 135	30	
4,4-DDT	0.13	2.0	ND	40	128	113	11.8	45 - 140	30	
TCMX (S)				100	107	101		48 - 125		
DCBP (S)				100	108	104		48 - 135		

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	05/26/17	Prep Batch:	7076
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	5/30/2017	Analytical Batch:	424419
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	ND	25	105	93.2	11.7	80 - 120	30	
Lead	0.054	1.0	0.070	25	108	111	2.20	80 - 120	30	



MS/MSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1705192	Prep Method:	3546_OCP	Prep Date:	05/26/17	Prep Batch:	7063
Matrix:	Soil	Analytical Method:	SW8081B	Analyzed Date:	5/30/2017	Analytical Batch:	424443
Spiked Sample:	1705192-083A						
Units:	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC (Lindane)	0.636	8.00	ND	40	91.4	92.9	1.36	25 - 135	30	
Heptachlor	0.420	8.00	ND	40	93.0	95.7	2.91	40 - 130	30	
Aldrin	0.780	8.00	ND	40	74.0	80.4	8.41	25 - 140	30	
Dieldrin	0.592	8.00	23.5	40	83.4	107	15.1	60 - 130	30	
Endrin	0.752	8.00	ND	40	91.5	94.5	3.23	55 - 135	30	
4,4-DDT	0.516	8.00	ND	40	95.7	98.7	2.50	45 - 140	30	
TCMX (S)				100	92.7	94.8		48 - 125		
DCBP (S)				100	74.0	85.3		48 - 135		

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	05/26/17	Prep Batch:	7076
Matrix:	Soil	Analytical Method:	6020A	Analyzed Date:	May 30	Analytical Batch:	424419
Spiked Sample:	1705192-067A						
Units:	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Arsenic	0.21	1.0	1.19	25	136	113	17.6	71.0 - 121	30	S



Duplicate QC Summary Report

Work Order:	1705192	Prep Method:	NA	Prep Date:	NA	Prep Batch:	NA
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/30/17	Analytical Batch:	424441
Units:						Lab Sample ID:	1705192-068Ax-1-DUP-424441

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Lead	0.054	1.0	4.04	3.92	3.04	

Work Order:	1705192	Prep Method:	6020S-P	Prep Date:	5/26/2017	Prep Batch:	7076
Matrix:		Analytical Method:	6020A	Analyzed Date:	05/30/17	Analytical Batch:	424419
Units:						Lab Sample ID:	1705192-073A-DUP-7076

Parameters	<u>MDL</u>	<u>PQL</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>% RPD</u>	
Arsenic	0.21	1.0	1.27	1.27	0.20	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank D - Surrogate is not recoverable due to the necessary dilution of the sample E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated. H- Indicates that the recommended holding time for the analyte or compound has been exceeded J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative NA - Not Analyzed N/A - Not Applicable ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL. NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Date and Time Received: 5/25/2017 1:10:00PM

Project Name: Fort Ord - Surplus II and Adjacent Area

Received By: NG

Work Order No.: 1705192

Physically Logged By: HU

Checklist Completed By:

Carrier Name: First Courier

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
Shipping Container/Cooler In Good Condition?	<u>Yes</u>
Samples in proper container/bottle?	<u>Yes</u>
Samples containers intact?	<u>Yes</u>
Sufficient sample volume for indicated test?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>
Container/Temp Blank temperature in compliance?	Temperature: 8.0 °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>
Water-pH acceptable upon receipt?	<u>N/A</u>
pH Checked by: N/A	pH Adjusted by: N/A

Comments:



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Fort Ord - Surplus II and Adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/31/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/25/2017
Time Received: 1:10 pm

Comments:

Work Order # : **1705192**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-001A	4483-N	05/24/17 15:19	Soil	11/21/17			Composite	
1705192-002A	4483-E	05/24/17 15:17	Soil	11/21/17			Composite	
1705192-003A	4483-S	05/24/17 15:15	Soil	11/21/17			Composite	
1705192-004A	4483-W	05/24/17 15:20	Soil	11/21/17			Composite	
1705192-005A	4481-N	05/24/17 15:23	Soil	11/21/17			Composite	
1705192-006A	4481-E	05/24/17 15:32	Soil	11/21/17			Composite	
1705192-007A	4481-S	05/24/17 15:31	Soil	11/21/17			Composite	
1705192-008A	4472-N	05/24/17 13:43	Soil	11/21/17			Composite	
1705192-009A	4472-E	05/24/17 13:45	Soil	11/21/17			Composite	
1705192-010A	4472-S	05/24/17 13:47	Soil	11/21/17			Composite	
1705192-011A	4472-W	05/24/17 13:40	Soil	11/21/17			Composite	
1705192-012A	4471-N	05/24/17 14:57	Soil	11/21/17			Composite	
1705192-013A	4471-E	05/24/17 14:55	Soil	11/21/17			Composite	
1705192-014A	4471-S	05/24/17 15:01	Soil	11/21/17			Composite	
1705192-015A	4471-W	05/24/17 14:51	Soil	11/21/17			Composite	
1705192-016A	4469-N	05/24/17 14:46	Soil	11/21/17			Composite	
1705192-017A	4469-E	05/24/17 14:45	Soil	11/21/17			Composite	
1705192-018A	4469-S	05/24/17 14:43	Soil	11/21/17			Composite	
1705192-019A	4469-W	05/24/17 14:48	Soil	11/21/17			Composite	



Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Fort Ord - Surplus II and Adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/31/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/25/2017
Time Received: 1:10 pm

Comments:

Work Order # : **1705192**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-020A	4419-N	05/24/17 10:12	Soil	11/21/17			Composite	
1705192-021A	4419-S	05/24/17 10:17	Soil	11/21/17			Composite	
1705192-022A	4419-W	05/24/17 10:14	Soil	11/21/17			Composite	
1705192-023A	4560-N	05/25/17 10:13	Soil	11/21/17			Composite	
1705192-024A	4560-E	05/25/17 10:15	Soil	11/21/17			Composite	
1705192-025A	4560-S	05/25/17 10:17	Soil	11/21/17			Composite	
1705192-026A	4560-W	05/25/17 10:11	Soil	11/21/17			Composite	
1705192-027A	4550-N	05/24/17 15:40	Soil	11/21/17			Composite	
1705192-028A	4550-E	05/24/17 15:38	Soil	11/21/17			Composite	
1705192-029A	4550-S	05/24/17 15:43	Soil	11/21/17			Composite	
1705192-030A	4550-W	05/24/17 15:42	Soil	11/21/17			Composite	
1705192-031A	4440-N	05/25/17 8:58	Soil	11/21/17			Composite	
1705192-032A	4440-E	05/25/17 9:01	Soil	11/21/17			Composite	
1705192-033A	4440-S	05/25/17 9:03	Soil	11/21/17			Composite	
1705192-034A	4440-W	05/25/17 9:05	Soil	11/21/17			Composite	
1705192-035A	4442-N	05/25/17 9:16	Soil	11/21/17			Composite	
1705192-036A	4442-E	05/25/17 9:19	Soil	11/21/17			Composite	
1705192-037A	4442-S	05/25/17 9:21	Soil	11/21/17			Composite	
1705192-038A	4442-W	05/25/17 9:11	Soil	11/21/17			Composite	



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Comments:

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<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-039A	4430-N	05/25/17 7:55	Soil	11/21/17			Composite	
1705192-040A	4430-E	05/25/17 7:48	Soil	11/21/17			Composite	
1705192-041A	4430-S	05/25/17 7:50	Soil	11/21/17			Composite	
1705192-042A	4430-W	05/25/17 7:52	Soil	11/21/17			Composite	
1705192-043A	4432-N	05/25/17 8:08	Soil	11/21/17			Composite	
1705192-044A	4432-E	05/25/17 8:00	Soil	11/21/17			Composite	
1705192-045A	4432-S	05/25/17 8:04	Soil	11/21/17			Composite	
1705192-046A	4432-W	05/25/17 8:05	Soil	11/21/17			Composite	
1705192-047A	4434-N	05/25/17 8:24	Soil	11/21/17			Composite	
1705192-048A	4434-E	05/25/17 8:16	Soil	11/21/17			Composite	
1705192-049A	4434-S	05/25/17 8:18	Soil	11/21/17			Composite	
1705192-050A	4434-W	05/25/17 8:21	Soil	11/21/17			Composite	
1705192-051A	4436-N	05/25/17 8:35	Soil	11/21/17			Composite	
1705192-052A	4436-E	05/25/17 8:37	Soil	11/21/17			Composite	
1705192-053A	4436-S	05/25/17 8:30	Soil	11/21/17			Composite	
1705192-054A	4436-W	05/25/17 8:32	Soil	11/21/17			Composite	
1705192-055A	4438-N	05/25/17 8:48	Soil	11/21/17			Composite	
1705192-056A	4438-E	05/25/17 8:42	Soil	11/21/17			Composite	
1705192-057A	4438-S	05/25/17 8:45	Soil	11/21/17			Composite	



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Work Order # : **1705192**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-058A	4438-W	05/25/17 8:46	Soil	11/21/17			Composite	
1705192-059A	4444-N	05/25/17 9:30	Soil	11/21/17			Composite	
1705192-060A	4444-E	05/25/17 9:36	Soil	11/21/17			Composite	
1705192-061A	4444-S	05/25/17 9:38	Soil	11/21/17			Composite	
1705192-062A	4444-W	05/25/17 9:41	Soil	11/21/17			Composite	
1705192-063A	4446-N	05/25/17 9:50	Soil	11/21/17			Composite	
1705192-064A	4446-E	05/25/17 9:58	Soil	11/21/17			Composite	
1705192-065A	4446-S	05/25/17 10:01	Soil	11/21/17			Composite	
1705192-066A	4446-W	05/25/17 9:47	Soil	11/21/17			Composite	
1705192-067A	4483-N, E, S, W COMP	05/24/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
Sample Note: 6020- As, Pb for -067A, -068A, -072A; As ONLY for all other samples								
1705192-068A	4481-N, E, S COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-069A	4472-N, E, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-070A	4471-N, E, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-071A	4469-N, E, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-072A	4419-N, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	



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Client ID: TL5123 Engeo (San Ramon)
Project Name: Fort Ord - Surplus II and Adjacent Area
Project # : 13847.000.000, ph 002
Report Due Date: 5/31/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 5/25/2017
Time Received: 1:10 pm

Comments:

Work Order # : **1705192**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1705192-073A	4560-N, E, S, W COMP	05/25/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-074A	4550-N, E, S, W COMP	05/24/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-075A	4440-N, E, S, W COMP	05/25/17	Soil	11/21/17			Pest_S_8081OCP Met_S_6020AsPb	
1705192-076A	4442-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-077A	4430-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-078A	4432-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-079A	4434-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-080A	4436-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-081A	4438-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-082A	4444-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	
1705192-083A	4446-N, E, S, W COMP	05/25/17	Soil	11/21/17			Met_S_6020AsPb Pest_S_8081OCP	



CHAIN OF CUSTODY RECORD

1705192

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area					OCPs (8081)	Arsenic (6020)	Lead (6020)											REMARKS REQUIRED DETECTION LIMITS
SAMPLED BY: (SIGNATURE/PRINT) <i>Travis Chatters</i>																				
PROJECT MANAGER: Scott Johns																				
ROUTING: E-MAIL <i>sjohns@engeo.com</i> Hard Copy NA																				
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE														
001A 4483- N	5/24/17	15:19	Soil	1	Liner/Jar	NA/ICE	X	X	X								4 PT Comp			
002A 4483- E		15:17	Soil	1	Liner/Jar	NA/ICE	X	X	X											
003A 4483- S		15:15	Soil	1	Liner/Jar	NA/ICE	X	X	X											
004A 4483- W		15:20	Soil	1	Liner/Jar	NA/ICE	X	X	X											
005A 4481- N		15:23	Soil	1	Liner/Jar	NA/ICE	X	X	X								3 PT Comp			
006A 4481- E		15:32	Soil	1	Liner/Jar	NA/ICE	X	X	X											
007A 4481- S		15:31	Soil	1	Liner/Jar	NA/ICE	X	X	X											
008A 4472- N	5/24/17	13:43	Soil	1	Liner/Jar	NA/ICE	X	X	X								4 PT Comp			
009A 4472- E		13:45	Soil	1	Liner/Jar	NA/ICE	X	X	X											
010A 4472- S		13:47	Soil	1	Liner/Jar	NA/ICE	X	X	X											
011A 4472- W		13:40	Soil	1	Liner/Jar	NA/ICE	X	X	X											
012A 4471- N		14:57	Soil	1	Liner/Jar	NA/ICE	X	X	X								4 PT Comp			
013A 4471- E		14:55	Soil	1	Liner/Jar	NA/ICE	X	X	X											
014A 4471- S		15:01	Soil	1	Liner/Jar	NA/ICE	X	X	X											
015A 4471- W		14:51	Soil	1	Liner/Jar	NA/ICE	X	X	X											
016A 4469- N		14:46	Soil	1	Liner/Jar	NA/ICE	X	X	X								1 PT Comp			
017A 4469- E		14:45	Soil	1	Liner/Jar	NA/ICE	X	X	X											
018A 4469- S		14:43	Soil	1	Liner/Jar	NA/ICE	X	X	X											
019A 4469- W		14:48	Soil	1	Liner/Jar	NA/ICE	X	X	X											
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>							DATE/TIME 5/25/17 12:00		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>			DATE/TIME 5/25/17 1:10		RECEIVED BY: (SIGNATURE) <i>NAVIN G</i>						
RELINQUISHED BY: (SIGNATURE)							DATE/TIME		RECEIVED BY: (SIGNATURE)			DATE/TIME		RECEIVED BY: (SIGNATURE)						
RELINQUISHED BY: (SIGNATURE)							DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)			DATE/TIME		REMARKS 3 Day TAT Composite samples as noted.						

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1705192

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area		OCPs (8081)		Arsenic (6020)		Lead (6020)		REMARKS REQUIRED DETECTION LIMITS	
SAMPLED BY: (SIGNATURE/PRINT) <i>Scott Johns</i>											
PROJECT MANAGER: Scott Johns											
ROUTING: E-MAIL <i>sjohns@engeo.com</i>				Hard Copy		NA					
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE					
4419- N	5/24/17	10:12	Soil	1	Liner/Jar	NA/ICE	X	X	X		3 PT Comp
4419- E	5/24/17		Soil	1	Liner/Jar	NA/ICE	X	X	X		
4419- S	5/21/17	10:17	Soil	1	Liner/Jar	NA/ICE	X	X	X		
4419- W	1	10:14	Soil	1	Liner/Jar	NA/ICE	X	X	X		
4560- N	5/25/17	10:13	Soil	1	Liner/Jar	NA/ICE	X	X			4 PT Comp
4560- E		10:15	Soil	1	Liner/Jar	NA/ICE	X	X			
4560- S		10:17	Soil	1	Liner/Jar	NA/ICE	X	X			
4560- W		10:11	Soil	1	Liner/Jar	NA/ICE	X	X			
4550- N	5/24/17	15:40	Soil	1	Liner/Jar	NA/ICE	X	X			4 PT Comp
4550- E		15:38	Soil	1	Liner/Jar	NA/ICE	X	X			
4550- S		15:43	Soil	1	Liner/Jar	NA/ICE	X	X			
4550- W		15:42	Soil	1	Liner/Jar	NA/ICE	X	X			
4440- N	5/25/17	8:58	Soil	1	Liner/Jar	NA/ICE	X	X			4 PT Comp
4440- E		9:01	Soil	1	Liner/Jar	NA/ICE	X	X			
4440- S		9:03	Soil	1	Liner/Jar	NA/ICE	X	X			
4440- W		9:05	Soil	1	Liner/Jar	NA/ICE	X	X			
4442- N		9:16	Soil	1	Liner/Jar	NA/ICE	X	X			4 PT Comp
4442- E		9:19	Soil	1	Liner/Jar	NA/ICE	X	X			
4442- S		9:21	Soil	1	Liner/Jar	NA/ICE	X	X			
4442- W		9:11	Soil	1	Liner/Jar	NA/ICE	X	X			
RELINQUISHED BY: (SIGNATURE) <i>Scott Johns</i>				DATE/TIME 5/15/17 12:00		RECEIVED BY: (SIGNATURE) <i>NAVIN G. JONES</i>		RELINQUISHED BY: (SIGNATURE) <i>NAVIN G. JONES</i>		DATE/TIME 5/15/17 1:10	
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME	
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS 3 Day TAT Composite samples as noted.	

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1705192

PROJECT NUMBER: 13847.000.000, ph 002		PROJECT NAME: Fort Ord - Surplus II and Adjacent Area		OCPs (8081)		Arsenic (6020)		Lead (6020)		REMARKS REQUIRED DETECTION LIMITS	
SAMPLED BY: (SIGNATURE/PRINT) <i>Travis Chatters</i>				PROJECT MANAGER: Scott Johns		ROUTING: E-MAIL sjohns@engeo.com		Hard Copy		NA	
SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE					
4430- N	5/25/17	7:55	Soil	1	Liner/Jar	NA/ICE	X	X			4 PT Comp
4430- E		7:48	Soil	1	Liner/Jar	NA/ICE	X	X			
4430- S		7:50	Soil	1	Liner/Jar	NA/ICE	X	X			
4430- W		7:52	Soil	1	Liner/Jar	NA/ICE	X	X			
4432- N		8:03	Soil	1	Liner/Jar	NA/ICE	X	X			4 PT Comp
4432- E		8:00	Soil	1	Liner/Jar	NA/ICE	X	X			
4432- S		8:04	Soil	1	Liner/Jar	NA/ICE	X	X			
4432- W		8:05	Soil	1	Liner/Jar	NA/ICE	X	X			
4434- N		8:24	Soil	1	Liner/Jar	NA/ICE	X	X			4 PT Comp
4434- E		8:16	Soil	1	Liner/Jar	NA/ICE	X	X			
4434- S		8:18	Soil	1	Liner/Jar	NA/ICE	X	X			
4434- W		8:21	Soil	1	Liner/Jar	NA/ICE	X	X			
4436- N		8:35	Soil	1	Liner/Jar	NA/ICE	X	X			4 PT Comp
4436- E		8:37	Soil	1	Liner/Jar	NA/ICE	X	X			
4436- S		8:30	Soil	1	Liner/Jar	NA/ICE	X	X			
4436- W		8:32	Soil	1	Liner/Jar	NA/ICE	X	X			
4438- N		8:43	Soil	1	Liner/Jar	NA/ICE	X	X			4 PT Comp
4438- E		8:42	Soil	1	Liner/Jar	NA/ICE	X	X			
4438- S		8:45	Soil	1	Liner/Jar	NA/ICE	X	X			
4438- W		8:46	Soil	1	Liner/Jar	NA/ICE	X	X			
RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>				DATE/TIME 5/25/17 12:00		RECEIVED BY: (SIGNATURE) <i>[Signature]</i>		RELINQUISHED BY: (SIGNATURE) <i>[Signature]</i>		DATE/TIME 5/25/17 1:10	
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED BY: (SIGNATURE)		RELINQUISHED BY: (SIGNATURE)		DATE/TIME	
RELINQUISHED BY: (SIGNATURE)				DATE/TIME		RECEIVED FOR LABORATORY BY: (SIGNATURE)		DATE/TIME		REMARKS 3 Day TAT Composite samples as noted.	



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Engeo Inc (SJ)
6399 San Ignacio Ave, Suite 150
San Jose, California 95119
Tel: 408-574-4900/Scott cell:925-570-5855
Fax: 888-279-2698
RE: Fort Ord - Surplus II Areas

Work Order No.: 1706007

Dear Scott Johns:

Torrent Laboratory, Inc. received 10 sample(s) on June 01, 2017 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Patti L Sandroock", is written over a light blue horizontal line.

Patti L Sandroock
QA Officer

June 06, 2017

Date



Date: 6/6/2017

Client: Engeo Inc (SJ)

Project: Fort Ord - Surplus II Areas

Work Order: 1706007

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-1

1706007-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	5.9	2.3	70	35
2-Butanone (MEK)	ETO15	5.9	2.3	8.7	4.2
Toluene	ETO15	5.9	4.4	11	6.1
2-Hexanone	ETO15	5.9	3.8	12	11
m,p-Xylene	ETO15	5.9	5.8	13	14
o-Xylene	ETO15	5.9	1.8	13	6.9
1,3-Dichlorobenzene	ETO15	5.9	7.9	18	13
TPH-Gasoline	TO-15	5.9	240	1000	298

SG-2

1706007-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Carbon Disulfide	ETO15	3.6	1.3	5.6	2.9
Acetone	ETO15	3.6	1.4	43	110
Hexane	ETO15	3.6	1.7	6.3	7.6
tert-Butanol	ETO15	3.6	2.2	5.5	13
Chloroform	ETO15	3.6	3.5	8.8	17
2-Butanone (MEK)	ETO15	3.6	1.4	5.3	21
Ethyl Acetate	ETO15	3.6	1.7	6.5	3.7
Tetrahydrofuran	ETO15	3.6	1.6	5.3	4.1
Benzene	ETO15	3.6	1.6	5.7	6.1
Toluene	ETO15	3.6	2.7	6.8	12
4-Methyl-2-Pentanone (MIBK)	ETO15	3.6	2.7	7.4	5.6
2-Hexanone	ETO15	3.6	2.3	7.4	13
Ethyl Benzene	ETO15	3.6	2.3	7.8	3.6
m,p-Xylene	ETO15	3.6	3.5	7.8	15
o-Xylene	ETO15	3.6	1.1	7.8	9.4
4-Ethyl Toluene	ETO15	3.6	2.0	8.9	2.6
1,3,5-Trimethylbenzene	ETO15	3.6	1.1	8.9	1.3
1,2,4-Trimethylbenzene	ETO15	3.6	2.1	8.9	3.0
1,3-Dichlorobenzene	ETO15	3.6	4.8	11	14
TPH-Gasoline	TO-15	3.6	150	630	327



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-3

1706007-003

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.40	12	66
tert-Butanol	ETO15	1	0.62	1.5	15
Chloroform	ETO15	1	0.97	2.4	19
Carbon Tetrachloride	ETO15	1	1.1	3.1	7.4
2-Butanone (MEK)	ETO15	1	0.39	1.5	13
Benzene	ETO15	1	0.44	1.6	2.6
Toluene	ETO15	1	0.75	1.9	7.5
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	6.1
2-Hexanone	ETO15	1	0.65	2.1	6.9
Ethyl Benzene	ETO15	1	0.63	2.2	3.3
m,p-Xylene	ETO15	1	0.98	2.2	13
o-Xylene	ETO15	1	0.30	2.2	8.7
4-Ethyl Toluene	ETO15	1	0.55	2.5	2.8
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	13
TPH-Gasoline	TO-15	1	40	180	615

SG-4

1706007-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.40	12	23
tert-Butanol	ETO15	1	0.62	1.5	2.3
2-Butanone (MEK)	ETO15	1	0.39	1.5	3.9
Toluene	ETO15	1	0.75	1.9	2.0
2-Hexanone	ETO15	1	0.65	2.1	2.1
m,p-Xylene	ETO15	1	0.98	2.2	2.2
o-Xylene	ETO15	1	0.30	2.2	2.3
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	6.3
Naphthalene	ETO15	1	1.3	2.6	2.6
TPH-Gasoline	TO-15	1	40	180	224



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-5

1706007-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
tert-Butanol	ETO15	1	0.62	1.5	12
Chloroform	ETO15	1	0.97	2.4	3.1
2-Butanone (MEK)	ETO15	1	0.39	1.5	3.7
Tetrahydrofuran	ETO15	1	0.45	1.5	2.7
Toluene	ETO15	1	0.75	1.9	26
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	2.2
4-Ethyl Toluene	ETO15	1	0.55	2.5	14
1,3,5-Trimethylbenzene	ETO15	1	0.30	2.5	5.7
1,2,4-Trimethylbenzene	ETO15	1	0.60	2.5	15
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	13
Acetone	ETO15	10	4.0	120	340
Ethyl Benzene	ETO15	10	6.3	22	220
m,p-Xylene	ETO15	10	9.8	22	1100
o-Xylene	ETO15	10	3.0	22	540
TPH-Gasoline	TO-15	1	40	180	1580

SG-6

1706007-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
2-Butanone (MEK)	ETO15	1	0.39	1.5	49
Toluene	ETO15	1	0.75	1.9	6.6
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	5.1
2-Hexanone	ETO15	1	0.65	2.1	13
Ethyl Benzene	ETO15	1	0.63	2.2	26
m,p-Xylene	ETO15	1	0.98	2.2	130
o-Xylene	ETO15	1	0.30	2.2	74
4-Ethyl Toluene	ETO15	1	0.55	2.5	28
1,3,5-Trimethylbenzene	ETO15	1	0.30	2.5	9.0
1,2,4-Trimethylbenzene	ETO15	1	0.60	2.5	25
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	15
Acetone	ETO15	5	2.0	60	250
tert-Butanol	ETO15	5	3.1	7.6	190
Tetrahydrofuran	ETO15	5	2.2	7.4	240
TPH-Gasoline	TO-15	1	40	180	771



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-7

1706007-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.40	12	45
tert-Butanol	ETO15	1	0.62	1.5	6.6
2-Butanone (MEK)	ETO15	1	0.39	1.5	5.9
Tetrahydrofuran	ETO15	1	0.45	1.5	2.4
Toluene	ETO15	1	0.75	1.9	2.6
2-Hexanone	ETO15	1	0.65	2.1	2.3
Ethyl Benzene	ETO15	1	0.63	2.2	21
m,p-Xylene	ETO15	1	0.98	2.2	110
o-Xylene	ETO15	1	0.30	2.2	64
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	9.3
TPH-Gasoline	TO-15	1	40	180	363

SG-8

1706007-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Carbon Disulfide	ETO15	1	0.37	1.6	3.0
Acetone	ETO15	1	0.40	12	52
tert-Butanol	ETO15	1	0.62	1.5	9.7
2-Butanone (MEK)	ETO15	1	0.39	1.5	8.4
Tetrahydrofuran	ETO15	1	0.45	1.5	1.7
Toluene	ETO15	1	0.75	1.9	3.9
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	2.5
2-Hexanone	ETO15	1	0.65	2.1	4.0
Ethyl Benzene	ETO15	1	0.63	2.2	13
m,p-Xylene	ETO15	1	0.98	2.2	59
o-Xylene	ETO15	1	0.30	2.2	37
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	12
TPH-Gasoline	TO-15	1	40	180	275



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

SG-9

1706007-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Acetone	ETO15	1	0.40	12	29
tert-Butanol	ETO15	1	0.62	1.5	5.1
2-Butanone (MEK)	ETO15	1	0.39	1.5	5.4
Toluene	ETO15	1	0.75	1.9	3.0
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	2.1
2-Hexanone	ETO15	1	0.65	2.1	3.3
Ethyl Benzene	ETO15	1	0.63	2.2	23
m,p-Xylene	ETO15	1	0.98	2.2	120
o-Xylene	ETO15	1	0.30	2.2	66
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	11
TPH-Gasoline	TO-15	1	40	180	289

SG-10

1706007-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results ug/m3</u>
Carbon Disulfide	ETO15	1	0.37	1.6	12
2-Propanol (Isopropyl Alcohol)	ETO15	1	1.3	12	26
Hexane	ETO15	1	0.46	1.8	19
tert-Butanol	ETO15	1	0.62	1.5	15
2-Butanone (MEK)	ETO15	1	0.39	1.5	23
Benzene	ETO15	1	0.44	1.6	14
Toluene	ETO15	1	0.75	1.9	73
4-Methyl-2-Pentanone (MIBK)	ETO15	1	0.75	2.1	96
2-Hexanone	ETO15	1	0.65	2.1	16
1,3,5-Trimethylbenzene	ETO15	1	0.30	2.5	10
1,2,4-Trimethylbenzene	ETO15	1	0.60	2.5	34
1,3-Dichlorobenzene	ETO15	1	1.3	3.0	5.7
Acetone	ETO15	50	20	600	2900
Ethyl Benzene	ETO15	50	31	110	1600
m,p-Xylene	ETO15	50	49	110	6600
o-Xylene	ETO15	50	15	110	3200
TPH-Gasoline	TO-15	25	1000	4400	16000



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-1	Lab Sample ID:	1706007-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 12:00	Certified Clean WO # :	
Canister/Tube ID:	6330	Received PSI :	12.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dichlorodifluoromethane	ETO15	5.90	9.3	15	ND	ND		06/06/17	15:47	BA	424559
1,1-Difluoroethane	ETO15	5.90	2.0	80	ND	ND		06/06/17	15:47	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	5.90	170	330	ND	ND		06/06/17	15:47	BA	424559
Chloromethane	ETO15	5.90	12	24	ND	ND		06/06/17	15:47	BA	424559
Vinyl Chloride	ETO15	5.90	1.3	7.6	ND	ND		06/06/17	15:47	BA	424559
1,3-Butadiene	ETO15	5.90	2.0	6.5	ND	ND		06/06/17	15:47	BA	424559
Bromomethane	ETO15	5.90	3.9	11	ND	ND		06/06/17	15:47	BA	424559
Chloroethane	ETO15	5.90	4.8	7.8	ND	ND		06/06/17	15:47	BA	424559
Trichlorofluoromethane	ETO15	5.90	3.3	17	ND	ND		06/06/17	15:47	BA	424559
1,1-Dichloroethene	ETO15	5.90	4.9	12	ND	ND		06/06/17	15:47	BA	424559
Freon 113	ETO15	5.90	6.0	23	ND	ND		06/06/17	15:47	BA	424559
Carbon Disulfide	ETO15	5.90	2.2	9.2	ND	ND		06/06/17	15:47	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	5.90	7.5	73	ND	ND		06/06/17	15:47	BA	424559
Methylene Chloride	ETO15	5.90	4.1	61	ND	ND		06/06/17	15:47	BA	424559
Acetone	ETO15	5.90	2.3	70	35	14.71	J	06/06/17	15:47	BA	424559
trans-1,2-Dichloroethene	ETO15	5.90	2.8	12	ND	ND		06/06/17	15:47	BA	424559
Hexane	ETO15	5.90	2.7	10	ND	ND		06/06/17	15:47	BA	424559
MTBE	ETO15	5.90	2.6	11	ND	ND		06/06/17	15:47	BA	424559
tert-Butanol	ETO15	5.90	3.6	8.9	ND	ND		06/06/17	15:47	BA	424559
Diisopropyl ether (DIPE)	ETO15	5.90	4.3	12	ND	ND		06/06/17	15:47	BA	424559
1,1-Dichloroethane	ETO15	5.90	3.2	12	ND	ND		06/06/17	15:47	BA	424559
ETBE	ETO15	5.90	1.9	12	ND	ND		06/06/17	15:47	BA	424559
cis-1,2-Dichloroethene	ETO15	5.90	4.9	12	ND	ND		06/06/17	15:47	BA	424559
Chloroform	ETO15	5.90	5.7	14	ND	ND		06/06/17	15:47	BA	424559
Vinyl Acetate	ETO15	5.90	4.5	10	ND	ND		06/06/17	15:47	BA	424559
Carbon Tetrachloride	ETO15	5.90	6.5	19	ND	ND		06/06/17	15:47	BA	424559
1,1,1-Trichloroethane	ETO15	5.90	4.7	16	ND	ND		06/06/17	15:47	BA	424559
2-Butanone (MEK)	ETO15	5.90	2.3	8.7	4.2	1.42	J	06/06/17	15:47	BA	424559
Ethyl Acetate	ETO15	5.90	2.8	11	ND	ND		06/06/17	15:47	BA	424559
Tetrahydrofuran	ETO15	5.90	2.6	8.7	ND	ND		06/06/17	15:47	BA	424559
Benzene	ETO15	5.90	2.6	9.4	ND	ND		06/06/17	15:47	BA	424559
TAME	ETO15	5.90	4.0	12	ND	ND		06/06/17	15:47	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-1	Lab Sample ID:	1706007-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 12:00	Certified Clean WO # :	
Canister/Tube ID:	6330	Received PSI :	12.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichloroethane (EDC)	ETO15	5.90	2.5	12	ND	ND		06/06/17	15:47	BA	424559
Trichloroethylene	ETO15	5.90	4.8	16	ND	ND		06/06/17	15:47	BA	424559
1,2-Dichloropropane	ETO15	5.90	4.5	14	ND	ND		06/06/17	15:47	BA	424559
Bromodichloromethane	ETO15	5.90	4.4	20	ND	ND		06/06/17	15:47	BA	424559
1,4-Dioxane	ETO15	5.90	11	21	ND	ND		06/06/17	15:47	BA	424559
trans-1,3-Dichloropropene	ETO15	5.90	6.3	13	ND	ND		06/06/17	15:47	BA	424559
Toluene	ETO15	5.90	4.4	11	6.1	1.62	J	06/06/17	15:47	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	5.90	4.4	12	ND	ND		06/06/17	15:47	BA	424559
cis-1,3-Dichloropropene	ETO15	5.90	2.5	13	ND	ND		06/06/17	15:47	BA	424559
Tetrachloroethylene	ETO15	5.90	8.6	20	ND	ND		06/06/17	15:47	BA	424559
1,1,2-Trichloroethane	ETO15	5.90	3.4	16	ND	ND		06/06/17	15:47	BA	424559
Dibromochloromethane	ETO15	5.90	6.6	25	ND	ND		06/06/17	15:47	BA	424559
1,2-Dibromoethane (EDB)	ETO15	5.90	4.4	23	ND	ND		06/06/17	15:47	BA	424559
2-Hexanone	ETO15	5.90	3.8	12	11	2.68	J	06/06/17	15:47	BA	424559
Ethyl Benzene	ETO15	5.90	3.7	13	ND	ND		06/06/17	15:47	BA	424559
Chlorobenzene	ETO15	5.90	3.5	14	ND	ND		06/06/17	15:47	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	5.90	4.9	20	ND	ND		06/06/17	15:47	BA	424559
m,p-Xylene	ETO15	5.90	5.8	13	14	3.23		06/06/17	15:47	BA	424559
o-Xylene	ETO15	5.90	1.8	13	6.9	1.59	J	06/06/17	15:47	BA	424559
Styrene	ETO15	5.90	2.7	13	ND	ND		06/06/17	15:47	BA	424559
Bromoform	ETO15	5.90	7.7	31	ND	ND		06/06/17	15:47	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	5.90	4.8	20	ND	ND		06/06/17	15:47	BA	424559
4-Ethyl Toluene	ETO15	5.90	3.2	15	ND	ND		06/06/17	15:47	BA	424559
1,3,5-Trimethylbenzene	ETO15	5.90	1.8	15	ND	ND		06/06/17	15:47	BA	424559
1,2,4-Trimethylbenzene	ETO15	5.90	3.5	15	ND	ND		06/06/17	15:47	BA	424559
1,4-Dichlorobenzene	ETO15	5.90	4.4	18	ND	ND		06/06/17	15:47	BA	424559
1,3-Dichlorobenzene	ETO15	5.90	7.9	18	13	2.16	J	06/06/17	15:47	BA	424559
1,2-Dichlorobenzene	ETO15	5.90	6.3	18	ND	ND		06/06/17	15:47	BA	424559
Hexachlorobutadiene	ETO15	5.90	11	31	ND	ND		06/06/17	15:47	BA	424559
1,2,4-Trichlorobenzene	ETO15	5.90	13	22	ND	ND		06/06/17	15:47	BA	424559
Naphthalene	ETO15	5.90	7.5	15	ND	ND		06/06/17	15:47	BA	424559
(S) 4-Bromofluorobenzene	ETO15	5.90	50	150	110 %			06/06/17	15:47	BA	424559

NOTE: Diluted due to matrix interference (suppression of an internal standard in the undiluted analysis).



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-1	Lab Sample ID:	1706007-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 12:00	Certified Clean WO # :	
Canister/Tube ID:	6330	Received PSI :	12.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

TPH-Gasoline	TO-15	5.90	240	1000	298	84.66	J,x	06/06/17	15:47	BA	424559
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NOTE: x - Although gasoline constituents are present, reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-2	Lab Sample ID:	1706007-002A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:15	Certified Clean WO # :	
Canister/Tube ID:	A7463	Received PSI :	13.3
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

Dichlorodifluoromethane	ETO15	3.60	5.6	8.9	ND	ND		06/06/17	16:13	BA	424559
1,1-Difluoroethane	ETO15	3.60	1.2	49	ND	ND		06/06/17	16:13	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	3.60	100	200	ND	ND		06/06/17	16:13	BA	424559
Chloromethane	ETO15	3.60	7.4	15	ND	ND		06/06/17	16:13	BA	424559
Vinyl Chloride	ETO15	3.60	0.81	4.6	ND	ND		06/06/17	16:13	BA	424559
1,3-Butadiene	ETO15	3.60	1.2	4.0	ND	ND		06/06/17	16:13	BA	424559
Bromomethane	ETO15	3.60	2.4	7.0	ND	ND		06/06/17	16:13	BA	424559
Chloroethane	ETO15	3.60	2.9	4.8	ND	ND		06/06/17	16:13	BA	424559
Trichlorofluoromethane	ETO15	3.60	2.0	10	ND	ND		06/06/17	16:13	BA	424559
1,1-Dichloroethene	ETO15	3.60	3.0	7.1	ND	ND		06/06/17	16:13	BA	424559
Freon 113	ETO15	3.60	3.7	14	ND	ND		06/06/17	16:13	BA	424559
Carbon Disulfide	ETO15	3.60	1.3	5.6	2.9	0.93	J	06/06/17	16:13	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	3.60	4.6	44	ND	ND		06/06/17	16:13	BA	424559
Methylene Chloride	ETO15	3.60	2.5	37	ND	ND		06/06/17	16:13	BA	424559
Acetone	ETO15	3.60	1.4	43	110	46.22		06/06/17	16:13	BA	424559
trans-1,2-Dichloroethene	ETO15	3.60	1.7	7.1	ND	ND		06/06/17	16:13	BA	424559
Hexane	ETO15	3.60	1.7	6.3	7.6	2.16		06/06/17	16:13	BA	424559
MTBE	ETO15	3.60	1.6	6.5	ND	ND		06/06/17	16:13	BA	424559
tert-Butanol	ETO15	3.60	2.2	5.5	13	4.29		06/06/17	16:13	BA	424559
Diisopropyl ether (DIPE)	ETO15	3.60	2.6	7.5	ND	ND		06/06/17	16:13	BA	424559
1,1-Dichloroethane	ETO15	3.60	2.0	7.3	ND	ND		06/06/17	16:13	BA	424559
ETBE	ETO15	3.60	1.2	7.5	ND	ND		06/06/17	16:13	BA	424559
cis-1,2-Dichloroethene	ETO15	3.60	3.0	7.1	ND	ND		06/06/17	16:13	BA	424559
Chloroform	ETO15	3.60	3.5	8.8	17	3.48		06/06/17	16:13	BA	424559
Vinyl Acetate	ETO15	3.60	2.7	6.3	ND	ND		06/06/17	16:13	BA	424559
Carbon Tetrachloride	ETO15	3.60	4.0	11	ND	ND		06/06/17	16:13	BA	424559
1,1,1-Trichloroethane	ETO15	3.60	2.9	9.8	ND	ND		06/06/17	16:13	BA	424559
2-Butanone (MEK)	ETO15	3.60	1.4	5.3	21	7.12		06/06/17	16:13	BA	424559
Ethyl Acetate	ETO15	3.60	1.7	6.5	3.7	1.03	J	06/06/17	16:13	BA	424559
Tetrahydrofuran	ETO15	3.60	1.6	5.3	4.1	1.39	J	06/06/17	16:13	BA	424559
Benzene	ETO15	3.60	1.6	5.7	6.1	1.91		06/06/17	16:13	BA	424559
TAME	ETO15	3.60	2.4	7.5	ND	ND		06/06/17	16:13	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-2	Lab Sample ID:	1706007-002A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:15	Certified Clean WO # :	
Canister/Tube ID:	A7463	Received PSI :	13.3
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichloroethane (EDC)	ETO15	3.60	1.5	7.3	ND	ND		06/06/17	16:13	BA	424559
Trichloroethylene	ETO15	3.60	2.9	9.7	ND	ND		06/06/17	16:13	BA	424559
1,2-Dichloropropane	ETO15	3.60	2.7	8.3	ND	ND		06/06/17	16:13	BA	424559
Bromodichloromethane	ETO15	3.60	2.7	12	ND	ND		06/06/17	16:13	BA	424559
1,4-Dioxane	ETO15	3.60	6.5	13	ND	ND		06/06/17	16:13	BA	424559
trans-1,3-Dichloropropene	ETO15	3.60	3.8	8.2	ND	ND		06/06/17	16:13	BA	424559
Toluene	ETO15	3.60	2.7	6.8	12	3.18		06/06/17	16:13	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	3.60	2.7	7.4	5.6	1.37	J	06/06/17	16:13	BA	424559
cis-1,3-Dichloropropene	ETO15	3.60	1.5	8.2	ND	ND		06/06/17	16:13	BA	424559
Tetrachloroethylene	ETO15	3.60	5.2	12	ND	ND		06/06/17	16:13	BA	424559
1,1,2-Trichloroethane	ETO15	3.60	2.1	9.8	ND	ND		06/06/17	16:13	BA	424559
Dibromochloromethane	ETO15	3.60	4.0	15	ND	ND		06/06/17	16:13	BA	424559
1,2-Dibromoethane (EDB)	ETO15	3.60	2.7	14	ND	ND		06/06/17	16:13	BA	424559
2-Hexanone	ETO15	3.60	2.3	7.4	13	3.17		06/06/17	16:13	BA	424559
Ethyl Benzene	ETO15	3.60	2.3	7.8	3.6	0.83	J	06/06/17	16:13	BA	424559
Chlorobenzene	ETO15	3.60	2.2	8.3	ND	ND		06/06/17	16:13	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	3.60	3.0	12	ND	ND		06/06/17	16:13	BA	424559
m,p-Xylene	ETO15	3.60	3.5	7.8	15	3.46		06/06/17	16:13	BA	424559
o-Xylene	ETO15	3.60	1.1	7.8	9.4	2.17		06/06/17	16:13	BA	424559
Styrene	ETO15	3.60	1.7	7.7	ND	ND		06/06/17	16:13	BA	424559
Bromoform	ETO15	3.60	4.7	19	ND	ND		06/06/17	16:13	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	3.60	2.9	12	ND	ND		06/06/17	16:13	BA	424559
4-Ethyl Toluene	ETO15	3.60	2.0	8.9	2.6	0.53	J	06/06/17	16:13	BA	424559
1,3,5-Trimethylbenzene	ETO15	3.60	1.1	8.9	1.3	0.26	J	06/06/17	16:13	BA	424559
1,2,4-Trimethylbenzene	ETO15	3.60	2.1	8.9	3.0	0.61	J	06/06/17	16:13	BA	424559
1,4-Dichlorobenzene	ETO15	3.60	2.7	11	ND	ND		06/06/17	16:13	BA	424559
1,3-Dichlorobenzene	ETO15	3.60	4.8	11	14	2.33		06/06/17	16:13	BA	424559
1,2-Dichlorobenzene	ETO15	3.60	3.9	11	ND	ND		06/06/17	16:13	BA	424559
Hexachlorobutadiene	ETO15	3.60	6.7	19	ND	ND		06/06/17	16:13	BA	424559
1,2,4-Trichlorobenzene	ETO15	3.60	7.7	13	ND	ND		06/06/17	16:13	BA	424559
Naphthalene	ETO15	3.60	4.6	9.4	ND	ND		06/06/17	16:13	BA	424559
(S) 4-Bromofluorobenzene	ETO15	3.60	50	150	110 %			06/06/17	16:13	BA	424559

NOTE: Diluted due to matrix interference (suppression of an internal standard in the undiluted analysis).



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-2	Lab Sample ID:	1706007-002A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:15	Certified Clean WO # :	
Canister/Tube ID:	A7463	Received PSI :	13.3
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
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The results shown below are reported using their MDL.

TPH-Gasoline	TO-15	3.60	150	630	327	92.90	J,x	06/06/17	16:13	BA	424559
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NOTE: x - Although gasoline constituents are present, reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-3	Lab Sample ID:	1706007-003A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:00	Certified Clean WO # :	
Canister/Tube ID:	6328	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	20:29	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	20:29	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	20:29	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	20:29	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	20:29	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	20:29	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	20:29	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	20:29	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	20:29	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	20:29	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	20:29	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	20:29	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	20:29	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	20:29	BA	424559
Acetone	ETO15	1.00	0.40	12	66	27.73		06/05/17	20:29	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	20:29	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	20:29	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	20:29	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	15	4.95		06/05/17	20:29	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	20:29	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	20:29	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	20:29	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	20:29	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	19	3.89		06/05/17	20:29	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	20:29	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	7.4	1.18		06/05/17	20:29	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	20:29	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	13	4.41		06/05/17	20:29	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	20:29	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		06/05/17	20:29	BA	424559
Benzene	ETO15	1.00	0.44	1.6	2.6	0.82		06/05/17	20:29	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	20:29	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	20:29	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-3	Lab Sample ID:	1706007-003A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	05/31/17 / 17:00	Certified Clean WO # :	
Canister/Tube ID:	6328	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	20:29	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	20:29	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	20:29	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	20:29	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	20:29	BA	424559
Toluene	ETO15	1.00	0.75	1.9	7.5	1.99		06/05/17	20:29	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	6.1	1.49		06/05/17	20:29	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	20:29	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	20:29	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	20:29	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	20:29	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	20:29	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	6.9	1.68		06/05/17	20:29	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	3.3	0.76		06/05/17	20:29	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	20:29	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	20:29	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	13	3.00		06/05/17	20:29	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	8.7	2.00		06/05/17	20:29	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	20:29	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	20:29	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	20:29	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	2.8	0.57		06/05/17	20:29	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	20:29	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	20:29	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	20:29	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	13	2.16		06/05/17	20:29	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	20:29	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	20:29	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	20:29	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	20:29	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			06/05/17	20:29	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-3	Lab Sample ID:	1706007-003A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000	Certified Clean WO # :	
Date/Time Sampled:	05/31/17 / 17:00	Received PSI :	13.0
Canister/Tube ID:	6328	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	615	174.72	x	06/05/17	20:29	BA	424559

NOTE: x - Although gasoline constituents are present, reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-4	Lab Sample ID:	1706007-004A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 7:45	Certified Clean WO # :	
Canister/Tube ID:	A7549	Received PSI :	13.8
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	20:55	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	20:55	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	20:55	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	20:55	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	20:55	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	20:55	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	20:55	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	20:55	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	20:55	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	20:55	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	20:55	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	20:55	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	20:55	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	20:55	BA	424559
Acetone	ETO15	1.00	0.40	12	23	9.66		06/05/17	20:55	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	20:55	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	20:55	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	20:55	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	2.3	0.76		06/05/17	20:55	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	20:55	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	20:55	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	20:55	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	20:55	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	20:55	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	20:55	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	20:55	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	20:55	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	3.9	1.32		06/05/17	20:55	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	20:55	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		06/05/17	20:55	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	20:55	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	20:55	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	20:55	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-4	Lab Sample ID:	1706007-004A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 7:45	Certified Clean WO # :	
Canister/Tube ID:	A7549	Received PSI :	13.8
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	20:55	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	20:55	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	20:55	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	20:55	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	20:55	BA	424559
Toluene	ETO15	1.00	0.75	1.9	2.0	0.53		06/05/17	20:55	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		06/05/17	20:55	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	20:55	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	20:55	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	20:55	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	20:55	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	20:55	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	2.1	0.51		06/05/17	20:55	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	ND	ND		06/05/17	20:55	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	20:55	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	20:55	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	2.2	0.51		06/05/17	20:55	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	2.3	0.53		06/05/17	20:55	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	20:55	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	20:55	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	20:55	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/05/17	20:55	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	20:55	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	20:55	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	20:55	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	6.3	1.05		06/05/17	20:55	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	20:55	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	20:55	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	20:55	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	2.6	0.50		06/05/17	20:55	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	100 %			06/05/17	20:55	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-4	Lab Sample ID:	1706007-004A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000	Certified Clean WO # :	
Date/Time Sampled:	06/01/17 / 7:45	Received PSI :	13.8
Canister/Tube ID:	A7549	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-GRO
Prep Batch ID: 7261

Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	224	63.64	x	06/05/17	20:55	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-5	Lab Sample ID:	1706007-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 11:10	Certified Clean WO # :	
Canister/Tube ID:	6324	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	21:24	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	21:24	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	21:24	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	21:24	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	21:24	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	21:24	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	21:24	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	21:24	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	21:24	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	21:24	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	21:24	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	21:24	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	21:24	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	21:24	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	21:24	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	21:24	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	21:24	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	12	3.96		06/05/17	21:24	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	21:24	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	21:24	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	21:24	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	21:24	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	3.1	0.64		06/05/17	21:24	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	21:24	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	21:24	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	21:24	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	3.7	1.25		06/05/17	21:24	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	21:24	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	2.7	0.92		06/05/17	21:24	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	21:24	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	21:24	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	21:24	BA	424559
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	21:24	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-5	Lab Sample ID:	1706007-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 11:10	Certified Clean WO # :	
Canister/Tube ID:	6324	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	21:24	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	21:24	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	21:24	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	21:24	BA	424559
Toluene	ETO15	1.00	0.75	1.9	26	6.90		06/05/17	21:24	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	2.2	0.54		06/05/17	21:24	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	21:24	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	21:24	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	21:24	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	21:24	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	21:24	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	ND	ND		06/05/17	21:24	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	21:24	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	21:24	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	21:24	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	21:24	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	21:24	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	14	2.85		06/05/17	21:24	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	5.7	1.16		06/05/17	21:24	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	15	3.05		06/05/17	21:24	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	21:24	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	13	2.16		06/05/17	21:24	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	21:24	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	21:24	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	21:24	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	21:24	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	95 %			06/05/17	21:24	BA	424559

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-5	Lab Sample ID:	1706007-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 11:10	Certified Clean WO # :	
Canister/Tube ID:	6324	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	10.00	4.0	120	340	142.86		06/06/17	13:51	BA	424559
Ethyl Benzene	ETO15	10.00	6.3	22	220	50.69		06/06/17	13:51	BA	424559
m,p-Xylene	ETO15	10.00	9.8	22	1100	253.46		06/06/17	13:51	BA	424559
o-Xylene	ETO15	10.00	3.0	22	540	124.42		06/06/17	13:51	BA	424559
(S) 4-Bromofluorobenzene	ETO15	10.00	50	150	110 %			06/06/17	13:51	BA	424559

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	1580	448.86	x	06/05/17	21:24	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-6	Lab Sample ID:	1706007-006A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 10:00	Certified Clean WO # :	
Canister/Tube ID:	N1435	Received PSI :	12.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	22:10	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	22:10	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	22:10	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	22:10	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	22:10	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	22:10	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	22:10	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	22:10	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	22:10	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	22:10	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	22:10	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	22:10	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	22:10	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	22:10	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	22:10	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	22:10	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	22:10	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	22:10	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	22:10	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	22:10	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	22:10	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	22:10	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	22:10	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	22:10	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	22:10	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	49	16.61		06/05/17	22:10	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	22:10	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	22:10	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	22:10	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	22:10	BA	424559
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	22:10	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	22:10	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	22:10	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-6	Lab Sample ID:	1706007-006A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 10:00	Certified Clean WO # :	
Canister/Tube ID:	N1435	Received PSI :	12.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	22:10	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	22:10	BA	424559
Toluene	ETO15	1.00	0.75	1.9	6.6	1.75		06/05/17	22:10	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	5.1	1.24		06/05/17	22:10	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	22:10	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	22:10	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	22:10	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	22:10	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	22:10	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	13	3.17		06/05/17	22:10	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	26	5.99		06/05/17	22:10	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	22:10	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	22:10	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	130	29.95		06/05/17	22:10	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	74	17.05		06/05/17	22:10	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	22:10	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	22:10	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	22:10	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	28	5.69		06/05/17	22:10	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	9.0	1.83		06/05/17	22:10	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	25	5.08		06/05/17	22:10	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	22:10	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	15	2.50		06/05/17	22:10	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	22:10	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	22:10	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	22:10	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	22:10	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	100 %			06/05/17	22:10	BA	424559

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-6	Lab Sample ID:	1706007-006A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 10:00	Certified Clean WO # :	
Canister/Tube ID:	N1435	Received PSI :	12.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	5.00	2.0	60	250	105.04		06/06/17	14:28	BA	424559
tert-Butanol	ETO15	5.00	3.1	7.6	190	62.71		06/06/17	14:28	BA	424559
Tetrahydrofuran	ETO15	5.00	2.2	7.4	240	81.36		06/06/17	14:28	BA	424559
(S) 4-Bromofluorobenzene	ETO15	5.00	50	150	110 %			06/06/17	14:28	BA	424559

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	771	219.03	x	06/05/17	22:10	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-7	Lab Sample ID:	1706007-007A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 9:15	Certified Clean WO # :	
Canister/Tube ID:	6321	Received PSI :	11.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	22:41	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	22:41	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	22:41	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	22:41	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	22:41	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	22:41	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	22:41	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	22:41	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	22:41	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	22:41	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	22:41	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	22:41	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	22:41	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	22:41	BA	424559
Acetone	ETO15	1.00	0.40	12	45	18.91		06/05/17	22:41	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	22:41	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	22:41	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	22:41	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	6.6	2.18		06/05/17	22:41	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	22:41	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	22:41	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	22:41	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	22:41	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	22:41	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	22:41	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	22:41	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	22:41	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	5.9	2.00		06/05/17	22:41	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	22:41	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	2.4	0.81		06/05/17	22:41	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	22:41	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	22:41	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	22:41	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-7	Lab Sample ID:	1706007-007A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 9:15	Certified Clean WO # :	
Canister/Tube ID:	6321	Received PSI :	11.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	22:41	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	22:41	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	22:41	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	22:41	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	22:41	BA	424559
Toluene	ETO15	1.00	0.75	1.9	2.6	0.69		06/05/17	22:41	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	ND	ND		06/05/17	22:41	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	22:41	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	22:41	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	22:41	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	22:41	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	22:41	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	2.3	0.56		06/05/17	22:41	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	21	4.84		06/05/17	22:41	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	22:41	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	22:41	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	110	25.35		06/05/17	22:41	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	64	14.75		06/05/17	22:41	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	22:41	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	22:41	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	22:41	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/05/17	22:41	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	22:41	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	22:41	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	22:41	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	9.3	1.55		06/05/17	22:41	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	22:41	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	22:41	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	22:41	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	22:41	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			06/05/17	22:41	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-7	Lab Sample ID:	1706007-007A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 9:15	Certified Clean WO # :	
Canister/Tube ID:	6321	Received PSI :	11.5
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO
Prep Batch ID: 7261

Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	363	103.13	x	06/05/17	22:41	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-8	Lab Sample ID:	1706007-008A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 9:25	Certified Clean WO # :	
Canister/Tube ID:	A7465	Received PSI :	11.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	23:20	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	23:20	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	23:20	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	23:20	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	23:20	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	23:20	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	23:20	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	23:20	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	23:20	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	23:20	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	23:20	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	3.0	0.96		06/05/17	23:20	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	23:20	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	23:20	BA	424559
Acetone	ETO15	1.00	0.40	12	52	21.85		06/05/17	23:20	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	23:20	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	23:20	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	23:20	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	9.7	3.20		06/05/17	23:20	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	23:20	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	23:20	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	23:20	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	23:20	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	23:20	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	23:20	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	23:20	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	23:20	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	8.4	2.85		06/05/17	23:20	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	23:20	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	1.7	0.58		06/05/17	23:20	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	23:20	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	23:20	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	23:20	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-8	Lab Sample ID:	1706007-008A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 9:25	Certified Clean WO # :	
Canister/Tube ID:	A7465	Received PSI :	11.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	23:20	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	23:20	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	23:20	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	23:20	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	23:20	BA	424559
Toluene	ETO15	1.00	0.75	1.9	3.9	1.03		06/05/17	23:20	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	2.5	0.61		06/05/17	23:20	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	23:20	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	23:20	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	23:20	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	23:20	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	23:20	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	4.0	0.98		06/05/17	23:20	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	13	3.00		06/05/17	23:20	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	23:20	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	23:20	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	59	13.59		06/05/17	23:20	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	37	8.53		06/05/17	23:20	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	23:20	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	23:20	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	23:20	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/05/17	23:20	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	23:20	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	23:20	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	23:20	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	12	2.00		06/05/17	23:20	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	23:20	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	23:20	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	23:20	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	23:20	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			06/05/17	23:20	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-8	Lab Sample ID:	1706007-008A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000	Certified Clean WO # :	
Date/Time Sampled:	06/01/17 / 9:25	Received PSI :	11.0
Canister/Tube ID:	A7465	Corrected PSI :	
Collection Volume (L):			
SDG:			

Prep Method: TO15-GRO

Prep Batch Date/Time: 6/5/17 1:34:00PM

Prep Batch ID: 7261

Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	275	78.13	x	06/05/17	23:20	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-9	Lab Sample ID:	1706007-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:30	Certified Clean WO # :	
Canister/Tube ID:	6332	Received PSI :	13.2
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/05/17	23:47	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/05/17	23:47	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/05/17	23:47	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/05/17	23:47	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/05/17	23:47	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/05/17	23:47	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/05/17	23:47	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/05/17	23:47	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/05/17	23:47	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	23:47	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/05/17	23:47	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	ND	ND		06/05/17	23:47	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	ND	ND		06/05/17	23:47	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/05/17	23:47	BA	424559
Acetone	ETO15	1.00	0.40	12	29	12.18		06/05/17	23:47	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/05/17	23:47	BA	424559
Hexane	ETO15	1.00	0.46	1.8	ND	ND		06/05/17	23:47	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/05/17	23:47	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	5.1	1.68		06/05/17	23:47	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/05/17	23:47	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/05/17	23:47	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/05/17	23:47	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/05/17	23:47	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/05/17	23:47	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/05/17	23:47	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/05/17	23:47	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/05/17	23:47	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	5.4	1.83		06/05/17	23:47	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/05/17	23:47	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		06/05/17	23:47	BA	424559
Benzene	ETO15	1.00	0.44	1.6	ND	ND		06/05/17	23:47	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/05/17	23:47	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/05/17	23:47	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-9	Lab Sample ID:	1706007-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:30	Certified Clean WO # :	
Canister/Tube ID:	6332	Received PSI :	13.2
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/05/17	23:47	BA	424559
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/05/17	23:47	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/05/17	23:47	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/05/17	23:47	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/05/17	23:47	BA	424559
Toluene	ETO15	1.00	0.75	1.9	3.0	0.80		06/05/17	23:47	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	2.1	0.51		06/05/17	23:47	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/05/17	23:47	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/05/17	23:47	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/05/17	23:47	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/05/17	23:47	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/05/17	23:47	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	3.3	0.80		06/05/17	23:47	BA	424559
Ethyl Benzene	ETO15	1.00	0.63	2.2	23	5.30		06/05/17	23:47	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/05/17	23:47	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/05/17	23:47	BA	424559
m,p-Xylene	ETO15	1.00	0.98	2.2	120	27.65		06/05/17	23:47	BA	424559
o-Xylene	ETO15	1.00	0.30	2.2	66	15.21		06/05/17	23:47	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/05/17	23:47	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/05/17	23:47	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/05/17	23:47	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/05/17	23:47	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	ND	ND		06/05/17	23:47	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	ND	ND		06/05/17	23:47	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/05/17	23:47	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	11	1.83		06/05/17	23:47	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/05/17	23:47	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/05/17	23:47	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/05/17	23:47	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/05/17	23:47	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	110 %			06/05/17	23:47	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-9	Lab Sample ID:	1706007-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:30	Certified Clean WO # :	
Canister/Tube ID:	6332	Received PSI :	13.2
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-GRO
Prep Batch ID: 7261

Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	1.00	40	180	289	82.10	x	06/05/17	23:47	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-10	Lab Sample ID:	1706007-010A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:40	Certified Clean WO # :	
Canister/Tube ID:	N1430	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	ETO15	1.00	1.6	2.5	ND	ND		06/06/17	0:16	BA	424559
1,1-Difluoroethane	ETO15	1.00	0.35	14	ND	ND		06/06/17	0:16	BA	424559
1,2-Dichlorotetrafluoroethane	ETO15	1.00	28	56	ND	ND		06/06/17	0:16	BA	424559
Chloromethane	ETO15	1.00	2.0	4.1	ND	ND		06/06/17	0:16	BA	424559
Vinyl Chloride	ETO15	1.00	0.23	1.3	ND	ND		06/06/17	0:16	BA	424559
1,3-Butadiene	ETO15	1.00	0.34	1.1	ND	ND		06/06/17	0:16	BA	424559
Bromomethane	ETO15	1.00	0.66	1.9	ND	ND		06/06/17	0:16	BA	424559
Chloroethane	ETO15	1.00	0.81	1.3	ND	ND		06/06/17	0:16	BA	424559
Trichlorofluoromethane	ETO15	1.00	0.56	2.8	ND	ND		06/06/17	0:16	BA	424559
1,1-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/06/17	0:16	BA	424559
Freon 113	ETO15	1.00	1.0	3.8	ND	ND		06/06/17	0:16	BA	424559
Carbon Disulfide	ETO15	1.00	0.37	1.6	12	3.86		06/06/17	0:16	BA	424559
2-Propanol (Isopropyl Alcohol)	ETO15	1.00	1.3	12	26	10.57		06/06/17	0:16	BA	424559
Methylene Chloride	ETO15	1.00	0.70	10	ND	ND		06/06/17	0:16	BA	424559
trans-1,2-Dichloroethene	ETO15	1.00	0.48	2.0	ND	ND		06/06/17	0:16	BA	424559
Hexane	ETO15	1.00	0.46	1.8	19	5.40		06/06/17	0:16	BA	424559
MTBE	ETO15	1.00	0.44	1.8	ND	ND		06/06/17	0:16	BA	424559
tert-Butanol	ETO15	1.00	0.62	1.5	15	4.95		06/06/17	0:16	BA	424559
Diisopropyl ether (DIPE)	ETO15	1.00	0.74	2.1	ND	ND		06/06/17	0:16	BA	424559
1,1-Dichloroethane	ETO15	1.00	0.54	2.0	ND	ND		06/06/17	0:16	BA	424559
ETBE	ETO15	1.00	0.33	2.1	ND	ND		06/06/17	0:16	BA	424559
cis-1,2-Dichloroethene	ETO15	1.00	0.83	2.0	ND	ND		06/06/17	0:16	BA	424559
Chloroform	ETO15	1.00	0.97	2.4	ND	ND		06/06/17	0:16	BA	424559
Vinyl Acetate	ETO15	1.00	0.76	1.8	ND	ND		06/06/17	0:16	BA	424559
Carbon Tetrachloride	ETO15	1.00	1.1	3.1	ND	ND		06/06/17	0:16	BA	424559
1,1,1-Trichloroethane	ETO15	1.00	0.79	2.7	ND	ND		06/06/17	0:16	BA	424559
2-Butanone (MEK)	ETO15	1.00	0.39	1.5	23	7.80		06/06/17	0:16	BA	424559
Ethyl Acetate	ETO15	1.00	0.48	1.8	ND	ND		06/06/17	0:16	BA	424559
Tetrahydrofuran	ETO15	1.00	0.45	1.5	ND	ND		06/06/17	0:16	BA	424559
Benzene	ETO15	1.00	0.44	1.6	14	4.39		06/06/17	0:16	BA	424559
TAME	ETO15	1.00	0.67	2.1	ND	ND		06/06/17	0:16	BA	424559
1,2-Dichloroethane (EDC)	ETO15	1.00	0.42	2.0	ND	ND		06/06/17	0:16	BA	424559
Trichloroethylene	ETO15	1.00	0.81	2.7	ND	ND		06/06/17	0:16	BA	424559



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-10	Lab Sample ID:	1706007-010A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:40	Certified Clean WO # :	
Canister/Tube ID:	N1430	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
1,2-Dichloropropane	ETO15	1.00	0.76	2.3	ND	ND		06/06/17	0:16	BA	424559
Bromodichloromethane	ETO15	1.00	0.74	3.4	ND	ND		06/06/17	0:16	BA	424559
1,4-Dioxane	ETO15	1.00	1.8	3.6	ND	ND		06/06/17	0:16	BA	424559
trans-1,3-Dichloropropene	ETO15	1.00	1.1	2.3	ND	ND		06/06/17	0:16	BA	424559
Toluene	ETO15	1.00	0.75	1.9	73	19.36		06/06/17	0:16	BA	424559
4-Methyl-2-Pentanone (MIBK)	ETO15	1.00	0.75	2.1	96	23.41		06/06/17	0:16	BA	424559
cis-1,3-Dichloropropene	ETO15	1.00	0.42	2.3	ND	ND		06/06/17	0:16	BA	424559
Tetrachloroethylene	ETO15	1.00	1.5	3.4	ND	ND		06/06/17	0:16	BA	424559
1,1,2-Trichloroethane	ETO15	1.00	0.58	2.7	ND	ND		06/06/17	0:16	BA	424559
Dibromochloromethane	ETO15	1.00	1.1	4.3	ND	ND		06/06/17	0:16	BA	424559
1,2-Dibromoethane (EDB)	ETO15	1.00	0.74	3.8	ND	ND		06/06/17	0:16	BA	424559
2-Hexanone	ETO15	1.00	0.65	2.1	16	3.90		06/06/17	0:16	BA	424559
Chlorobenzene	ETO15	1.00	0.60	2.3	ND	ND		06/06/17	0:16	BA	424559
1,1,1,2-Tetrachloroethane	ETO15	1.00	0.84	3.4	ND	ND		06/06/17	0:16	BA	424559
Styrene	ETO15	1.00	0.46	2.1	ND	ND		06/06/17	0:16	BA	424559
Bromoform	ETO15	1.00	1.3	5.2	ND	ND		06/06/17	0:16	BA	424559
1,1,2,2-Tetrachloroethane	ETO15	1.00	0.82	3.4	ND	ND		06/06/17	0:16	BA	424559
4-Ethyl Toluene	ETO15	1.00	0.55	2.5	ND	ND		06/06/17	0:16	BA	424559
1,3,5-Trimethylbenzene	ETO15	1.00	0.30	2.5	10	2.03		06/06/17	0:16	BA	424559
1,2,4-Trimethylbenzene	ETO15	1.00	0.60	2.5	34	6.91		06/06/17	0:16	BA	424559
1,4-Dichlorobenzene	ETO15	1.00	0.75	3.0	ND	ND		06/06/17	0:16	BA	424559
1,3-Dichlorobenzene	ETO15	1.00	1.3	3.0	5.7	0.95		06/06/17	0:16	BA	424559
1,2-Dichlorobenzene	ETO15	1.00	1.1	3.0	ND	ND		06/06/17	0:16	BA	424559
Hexachlorobutadiene	ETO15	1.00	1.9	5.3	ND	ND		06/06/17	0:16	BA	424559
1,2,4-Trichlorobenzene	ETO15	1.00	2.2	3.7	ND	ND		06/06/17	0:16	BA	424559
Naphthalene	ETO15	1.00	1.3	2.6	ND	ND		06/06/17	0:16	BA	424559
(S) 4-Bromofluorobenzene	ETO15	1.00	50	150	93 %			06/06/17	0:16	BA	424559

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	SG-10	Lab Sample ID:	1706007-010A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil Vapor
Project Number:	13847.000.000		
Date/Time Sampled:	06/01/17 / 8:40	Certified Clean WO # :	
Canister/Tube ID:	N1430	Received PSI :	13.0
Collection Volume (L):		Corrected PSI :	
SDG:			

Prep Method: TO15-P	Prep Batch Date/Time: 6/5/17 12:40:00PM
Prep Batch ID: 7242	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
Acetone	ETO15	50.00	20	600	2900	1,218.49		06/06/17	15:18	BA	424559
Ethyl Benzene	ETO15	50.00	31	110	1600	368.66		06/06/17	15:18	BA	424559
m,p-Xylene	ETO15	50.00	49	110	6600	1,520.74		06/06/17	15:18	BA	424559
o-Xylene	ETO15	50.00	15	110	3200	737.33		06/06/17	15:18	BA	424559
(S) 4-Bromofluorobenzene	ETO15	50.00	50	150	110 %			06/06/17	15:18	BA	424559

Prep Method: TO15-GRO	Prep Batch Date/Time: 6/5/17 1:34:00PM
Prep Batch ID: 7261	Prep Analyst: BALI

Parameters:	Analysis Method	DF	MDL ug/m3	PQL ug/m3	Results ug/m3	Results ppbv	Q	Analyzed	Time	By	Analytical Batch
TPH-Gasoline	TO-15	25.00	1000	4400	16000	4,545.45	x	06/06/17	14:53	BA	424559

NOTE: x - Does not match gasoline standard pattern. Reported value includes amount of unknown heavy hydrocarbons within range of C5-C12 quantified as Gasoline.



MB Summary Report

Work Order:	1706007	Prep Method:	TO15-P	Prep Date:	06/05/17	Prep Batch:	7242
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	0.32	0.50	ND	
1,1-Difluoroethane	0.13	5.0	ND	
1,2-Dichlorotetrafluoroethane	4.0	8.0	ND	
Chloromethane	0.99	2.0	ND	
Vinyl Chloride	0.088	0.50	ND	
1,3-Butadiene	0.15	0.50	ND	
Bromomethane	0.17	0.50	ND	
Chloroethane	0.31	0.50	ND	
Trichlorofluoromethane	0.099	0.50	ND	
1,1-Dichloroethene	0.21	0.50	ND	
Freon 113	0.13	0.50	ND	
Carbon Disulfide	0.12	0.50	ND	
2-Propanol (Isopropyl Alcohol)	0.52	5.0	ND	
Methylene Chloride	0.20	3.0	ND	
Acetone	0.17	5.0	0.45	
trans-1,2-Dichloroethene	0.12	0.50	ND	
Hexane	0.13	0.50	ND	
MTBE	0.12	0.50	ND	
tert-Butanol	0.20	0.50	ND	
Diisopropyl ether (DIPE)	0.18	0.50	ND	
1,1-Dichloroethane	0.13	0.50	ND	
ETBE	0.078	0.50	ND	
cis-1,2-Dichloroethene	0.21	0.50	ND	
Chloroform	0.20	0.50	ND	
Vinyl Acetate	0.22	0.50	ND	
Carbon Tetrachloride	0.18	0.50	ND	
1,1,1-Trichloroethane	0.15	0.50	ND	
2-Butanone (MEK)	0.13	0.50	ND	
Ethyl Acetate	0.13	0.50	ND	
Tetrahydrofuran	0.15	0.50	ND	
Benzene	0.14	0.50	ND	
TAME	0.16	0.50	ND	
1,2-Dichloroethane (EDC)	0.10	0.50	ND	
Trichloroethylene	0.15	0.50	ND	
1,2-Dichloropropane	0.17	0.50	ND	
Bromodichloromethane	0.11	0.50	ND	
1,4-Dioxane	0.50	1.0	ND	
trans-1,3-Dichloropropene	0.23	0.50	ND	
Toluene	0.20	0.50	0.43	
4-Methyl-2-Pentanone (MIBK)	0.18	0.50	0.24	
cis-1,3-Dichloropropene	0.093	0.50	ND	
Tetrachloroethylene	0.22	0.50	ND	



MB Summary Report

Work Order:	1706007	Prep Method:	TO15-P	Prep Date:	06/05/17	Prep Batch:	7242
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
1,1,2-Trichloroethane	0.11	0.50	ND	
Dibromochloromethane	0.13	0.50	ND	
1,2-Dibromoethane (EDB)	0.096	0.50	ND	
2-Hexanone	0.16	0.50	ND	
Ethyl Benzene	0.15	0.50	ND	
Chlorobenzene	0.13	0.50	ND	
1,1,1,2-Tetrachloroethane	0.12	0.50	ND	
m,p-Xylene	0.23	0.50	ND	
o-Xylene	0.070	0.50	ND	
Styrene	0.11	0.50	ND	
Bromoform	0.13	0.50	ND	
1,1,2,2-Tetrachloroethane	0.12	0.50	ND	
4-Ethyl Toluene	0.11	0.50	ND	
1,3,5-Trimethylbenzene	0.061	0.50	ND	
1,2,4-Trimethylbenzene	0.12	0.50	ND	
1,4-Dichlorobenzene	0.12	0.50	ND	
1,3-Dichlorobenzene	0.22	0.50	ND	
1,2-Dichlorobenzene	0.18	0.50	ND	
Hexachlorobutadiene	0.17	0.50	ND	
1,2,4-Trichlorobenzene	0.29	0.50	ND	
Naphthalene	0.24	0.50	ND	
(S) 4-Bromofluorobenzene			110	

Work Order:	1706007	Prep Method:	TO15-GRO	Prep Date:	06/05/17	Prep Batch:	7261
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH-Gasoline	11	50	17	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1706007	Prep Method:	TO15-P	Prep Date:	06/05/17	Prep Batch:	7242
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	0.21	0.50	ND	8.00	101	102	0.865	65 - 135	30	
Benzene	0.14	0.50	ND	8.00	111	109	1.71	65 - 135	30	
Trichloroethylene	0.15	0.50	ND	8.00	105	102	3.02	65 - 135	30	
Toluene	0.20	0.50	ND	8.00	102	105	3.75	65 - 135	30	
Chlorobenzene	0.13	0.50	ND	8.00	105	103	1.81	65 - 135	30	
(S) 4-Bromofluorobenzene				20.0	82.9	87.8		50 - 150		

Work Order:	1706007	Prep Method:	TO15-GRO	Prep Date:	06/05/17	Prep Batch:	7261
Matrix:	Air	Analytical Method:	ETO15	Analyzed Date:	6/6/2017	Analytical Batch:	424559
Units:	ppbv						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH-Gasoline	11	50	17	500	130	108	18.5	65 - 135	30	



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm ² surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Engeo Inc (SJ)

Date and Time Received: 6/1/2017 3:00:00PM

Project Name: Fort Ord - Surplus II Areas

Received By: ke

Work Order No.: 1706007

Physically Logged By: Navin Ghodasara

Checklist Completed By:

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
Shipping Container/Cooler In Good Condition?	<u>Yes</u>
Samples in proper container/bottle?	<u>Yes</u>
Samples containers intact?	<u>Yes</u>
Sufficient sample volume for indicated test?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>	
Container/Temp Blank temperature in compliance?		Temperature: °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>	
Water-pH acceptable upon receipt?	<u>N/A</u>	
pH Checked by: <u>na</u>	pH Adjusted by: <u>na</u>	

Comments:



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)

Project Name: Fort Ord - Surplus II Areas

Project # : 13847.000.000

Report Due Date: 6/6/2017

QC Level: II

TAT Requested: 3 Day Std:3

Date Received: 6/1/2017

Time Received: 3:00 pm

Comments:

Work Order # : **1706007**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1706007-001A	SG-1	06/01/17 12:00	Air				VOC_A_TO15GRO VOC_A_TO15	
Sample Note: Std 3 Day TAT. TO-15, TPHg including Napthalene.								
1706007-002A	SG-2	05/31/17 17:15	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-003A	SG-3	05/31/17 17:00	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-004A	SG-4	06/01/17 7:45	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-005A	SG-5	06/01/17 11:10	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-006A	SG-6	06/01/17 10:00	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-007A	SG-7	06/01/17 9:15	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-008A	SG-8	06/01/17 9:25	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-009A	SG-9	06/01/17 8:30	Air				VOC_A_TO15 VOC_A_TO15GRO	
1706007-010A	SG-10	06/01/17 8:40	Air				VOC_A_TO15 VOC_A_TO15GRO	

1706007

[illegible]

EN GEO
INCORPORATED

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SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

Ambient temp
D/OFF

TO-15 to include TPHg, VOCs & Naphthalene
standard TAT

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES



Engeo Inc (SJ)
6399 San Ignacio Ave, Suite 150
San Jose, California 95119
Tel: 408-574-4900/Scott cell:925-570-5855
Fax: 888-279-2698
RE: Fort Ord - Surplus II Areas

Work Order No.: 1706009

Dear Scott Johns:

Torrent Laboratory, Inc. received 12 sample(s) on June 01, 2017 for the analyses presented in the following Report.

As instructed on the Chain of Custody, nine samples were placed on hold.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Patti L Sandroock", is written over a light blue horizontal line.

Patti L Sandroock
QA Officer

June 06, 2017

Date



Date: 6/6/2017

Client: Engeo Inc (SJ)

Project: Fort Ord - Surplus II Areas

Work Order: 1706009

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

This report shall not be reproduced, except in full, without the written approval of Torrent Analytical, Inc.



Sample Result Summary

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date Received: 06/01/17

Date Reported: 06/06/17

S1 @ 10'

1706009-001

Parameters:

Analysis
Method

DF

MDL

PQL

Results

Unit

All compounds were non-detectable for this sample.

S2 @ 5'

1706009-005

Parameters:

Analysis
Method

DF

MDL

PQL

Results

Unit

TPH as Diesel (SG)

SW8015B

1

0.85

2.0

2.56

mg/Kg

S3 @ 5'

1706009-009

Parameters:

Analysis
Method

DF

MDL

PQL

Results

Unit

TPH as Diesel (SG)

SW8015B

1

0.85

2.0

3.14

mg/Kg



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S1 @ 10'	Lab Sample ID:	1706009-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 14:20		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 6/5/17 2:12:00PM
Prep Batch ID: 7225	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	ND		mg/Kg	06/05/17	19:38	mk	424572
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	06/05/17	19:38	mk	424572
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		85.9		%	06/05/17	19:38	mk	424572

Prep Method: 5035	Prep Batch Date/Time: 6/2/17 5:26:00PM
Prep Batch ID: 7207	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	06/03/17	4:20	BP	424532
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
TAME	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S1 @ 10'	Lab Sample ID:	1706009-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 14:20		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 6/2/17 5:26:00PM
Prep Batch ID: 7207	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	4:20	BP	424532
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	06/03/17	4:20	BP	424532
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	4:20	BP	424532
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	4:20	BP	424532
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	4:20	BP	424532
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	4:20	BP	424532



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S1 @ 10'	Lab Sample ID:	1706009-001A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 14:20		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 6/2/17 5:26:00PM
Prep Batch ID: 7207	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	4:20	BP	424532
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	4:20	BP	424532
2-Butanone (MEK)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	4:20	BP	424532
(S) Dibromofluoromethane	SW8260B		59.8 - 148		78.6		%	06/03/17	4:20	BP	424532
(S) Toluene-d8	SW8260B		55.2 - 133		146	S	%	06/03/17	4:20	BP	424532
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		125		%	06/03/17	4:20	BP	424532

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method: 5035GRO	Prep Batch Date/Time: 6/2/17 5:26:00PM
Prep Batch ID: 7208	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	06/03/17	4:20	BP	424532
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		66.0		%	06/03/17	4:20	BP	424532



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S2 @ 5'	Lab Sample ID:	1706009-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 11:10		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 6/5/17 2:12:00PM
Prep Batch ID: 7225	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	2.56	x	mg/Kg	06/05/17	20:01	mk	424572
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	06/05/17	20:01	mk	424572
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		92.7		%	06/05/17	20:01	mk	424572

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7246	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	06/03/17	15:06	BP	424562
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
TAME	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S2 @ 5'	Lab Sample ID:	1706009-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 11:10		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7246	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:06	BP	424562
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	06/03/17	15:06	BP	424562
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:06	BP	424562
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	15:06	BP	424562
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:06	BP	424562
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S2 @ 5'	Lab Sample ID:	1706009-005A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 11:10		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	6/3/17 11:24:00AM
Prep Batch ID:	7246	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:06	BP	424562
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:06	BP	424562
2-Butanone (MEK)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:06	BP	424562
(S) Dibromofluoromethane	SW8260B		59.8 - 148		77.1		%	06/03/17	15:06	BP	424562
(S) Toluene-d8	SW8260B		55.2 - 133		143	S	%	06/03/17	15:06	BP	424562
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		130		%	06/03/17	15:06	BP	424562

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method:	5035GRO	Prep Batch Date/Time:	6/3/17 11:24:00AM
Prep Batch ID:	7247	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	06/03/17	15:06	BP	424562
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		64.5		%	06/03/17	15:06	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S3 @ 5'	Lab Sample ID:	1706009-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 17:10		
SDG:			

Prep Method: 3546_TPHSG	Prep Batch Date/Time: 6/5/17 2:12:00PM
Prep Batch ID: 7225	Prep Analyst: SNARASIMHAN

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH as Diesel (SG)	SW8015B	1	0.85	2.0	3.14	x	mg/Kg	06/05/17	20:24	mk	424572
TPH as Motor Oil (SG)	SW8015B	1	3.2	10	ND		mg/Kg	06/05/17	20:24	mk	424572
Acceptance Limits											
Pentacosane (S)	SW8015B		59 - 129		95.6		%	06/05/17	20:24	mk	424572

NOTE: x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range slightly heavier than diesel quantified as diesel.

Prep Method: 5035	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7246	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
Dichlorodifluoromethane	SW8260B	1	1.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Chloromethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Vinyl Chloride	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromomethane	SW8260B	1	2.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Chloroethane	SW8260B	1	3.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Trichlorofluoromethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1-Dichloroethene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Freon 113	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Methylene Chloride	SW8260B	1	7.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
trans-1,2-Dichloroethene	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
MTBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
tert-Butanol	SW8260B	1	12	50	ND		ug/Kg	06/03/17	15:42	BP	424562
Diisopropyl ether (DIPE)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1-Dichloroethane	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
ETBE	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
cis-1,2-Dichloroethene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
2,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromochloromethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Chloroform	SW8260B	1	2.4	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Carbon Tetrachloride	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1,1-Trichloroethane	SW8260B	1	2.1	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1-Dichloropropene	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Benzene	SW8260B	1	2.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
TAME	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S3 @ 5'	Lab Sample ID:	1706009-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 17:10		
SDG:			

Prep Method: 5035	Prep Batch Date/Time: 6/3/17 11:24:00AM
Prep Batch ID: 7246	Prep Analyst: BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dichloroethane	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Trichloroethylene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Dibromomethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2-Dichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromodichloromethane	SW8260B	1	2.0	10	ND		ug/Kg	06/03/17	15:42	BP	424562
cis-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Toluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Tetrachloroethylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
trans-1,3-Dichloropropene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1,2-Trichloroethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Dibromochloromethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,3-Dichloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2-Dibromoethane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Chlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Ethyl Benzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1,1,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
m,p-Xylene	SW8260B	1	3.2	10	ND		ug/Kg	06/03/17	15:42	BP	424562
o-Xylene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Styrene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromoform	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Isopropyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
n-Propylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Bromobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,1,2,2-Tetrachloroethane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
2-Chlorotoluene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,3,5-Trimethylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2,3-Trichloropropane	SW8260B	1	1.9	10	ND		ug/Kg	06/03/17	15:42	BP	424562
4-Chlorotoluene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
tert-Butylbenzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2,4-Trimethylbenzene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	15:42	BP	424562
sec-Butyl Benzene	SW8260B	1	1.6	10	ND		ug/Kg	06/03/17	15:42	BP	424562
p-Isopropyltoluene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,3-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,4-Dichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
n-Butylbenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2-Dichlorobenzene	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562



SAMPLE RESULTS

Report prepared for: Scott Johns
Engeo Inc (SJ)

Date/Time Received: 06/01/17, 3:00 pm
Date Reported: 06/06/17

Client Sample ID:	S3 @ 5'	Lab Sample ID:	1706009-009A
Project Name/Location:	Fort Ord - Surplus II Areas	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	05/31/17 / 17:10		
SDG:			

Prep Method:	5035	Prep Batch Date/Time:	6/3/17 11:24:00AM
Prep Batch ID:	7246	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
1,2-Dibromo-3-Chloropropane	SW8260B	1	1.8	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Hexachlorobutadiene	SW8260B	1	1.4	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2,4-Trichlorobenzene	SW8260B	1	1.5	10	ND		ug/Kg	06/03/17	15:42	BP	424562
Naphthalene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
1,2,3-Trichlorobenzene	SW8260B	1	1.7	10	ND		ug/Kg	06/03/17	15:42	BP	424562
2-Butanone (MEK)	SW8260B	1	2.3	10	ND		ug/Kg	06/03/17	15:42	BP	424562
(S) Dibromofluoromethane	SW8260B		59.8 - 148		75.1		%	06/03/17	15:42	BP	424562
(S) Toluene-d8	SW8260B		55.2 - 133		138	S	%	06/03/17	15:42	BP	424562
(S) 4-Bromofluorobenzene	SW8260B		55.8 - 141		125		%	06/03/17	15:42	BP	424562

NOTE: S-Surrogate recovery out of limit-high bias. Data was acceptable because sample result was ND (Not Detected). No corrective action required.

Prep Method:	5035GRO	Prep Batch Date/Time:	6/3/17 11:24:00AM
Prep Batch ID:	7247	Prep Analyst:	BPATEL

Parameters:	Analysis Method	DF	MDL	PQL	Results	Q	Units	Analyzed	Time	By	Analytical Batch
TPH(Gasoline)	8260TPH	1	43	100	ND		ug/Kg	06/03/17	15:42	BP	424562
(S) 4-Bromofluorobenzene	8260TPH		43.9 - 127		72.8		%	06/03/17	15:42	BP	424562



MB Summary Report

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/02/17	Prep Batch:	7207
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/2/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
tert-Butanol	12	50	ND	
Diisopropyl ether (DIPE)	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
ETBE	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethylene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethyl Benzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	



MB Summary Report

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/02/17	Prep Batch:	7207
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/2/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Styrene	1.6	10	ND	
Bromoform	1.7	10	ND	
Isopropyl Benzene	1.6	10	ND	
n-Propylbenzene	1.6	10	ND	
Bromobenzene	1.8	10	ND	
1,1,2,2-Tetrachloroethane	1.9	10	ND	
2-Chlorotoluene	1.8	10	ND	
1,3,5-Trimethylbenzene	1.6	10	ND	
1,2,3-Trichloropropane	1.9	10	ND	
4-Chlorotoluene	1.6	10	ND	
tert-Butylbenzene	1.6	10	ND	
1,2,4-Trimethylbenzene	1.4	10	ND	
sec-Butyl Benzene	1.6	10	ND	
p-Isopropyltoluene	1.5	10	ND	
1,3-Dichlorobenzene	1.7	10	ND	
1,4-Dichlorobenzene	1.7	10	ND	
n-Butylbenzene	1.5	10	ND	
1,2-Dichlorobenzene	1.8	10	ND	
1,2-Dibromo-3-Chloropropane	1.8	10	ND	
Hexachlorobutadiene	1.4	10	1.4	
1,2,4-Trichlorobenzene	1.5	10	1.5	
Naphthalene	1.7	10	2.0	
1,2,3-Trichlorobenzene	1.7	10	2.5	
2-Butanone (MEK)	1.7	10	ND	
(S) Dibromofluoromethane			78.3	
(S) Toluene-d8			130	
(S) 4-Bromofluorobenzene			127	

Work Order:	1706009	Prep Method:	5035GRO	Prep Date:	06/02/17	Prep Batch:	7208
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/2/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	43	100	ND	
(S) 4-Bromofluorobenzene			92.4	



MB Summary Report

Work Order:	1706009	Prep Method:	3546_TPHSG	Prep Date:	06/05/17	Prep Batch:	7225
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	6/5/2017	Analytical Batch:	424572
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
TPH as Diesel (SG)	0.85	2.0	ND		
TPH as Motor Oil (SG)	3.2	10	ND		
Pentacosane (S)			81.0		



MB Summary Report

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/03/17	Prep Batch:	7246
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Dichlorodifluoromethane	1.2	10	ND	
Chloromethane	1.8	10	ND	
Vinyl Chloride	2.0	10	ND	
Bromomethane	2.7	10	ND	
Chloroethane	3.0	10	ND	
Trichlorofluoromethane	2.1	10	ND	
1,1-Dichloroethene	2.0	10	ND	
Freon 113	1.9	10	ND	
Methylene Chloride	7.1	10	ND	
trans-1,2-Dichloroethene	2.1	10	ND	
MTBE	2.3	10	ND	
tert-Butanol	12	50	ND	
Diisopropyl ether (DIPE)	2.3	10	ND	
1,1-Dichloroethane	2.2	10	ND	
ETBE	2.3	10	ND	
cis-1,2-Dichloroethene	2.2	10	ND	
2,2-Dichloropropane	1.9	10	ND	
Bromochloromethane	2.3	10	ND	
Chloroform	2.4	10	ND	
Carbon Tetrachloride	2.1	10	ND	
1,1,1-Trichloroethane	2.1	10	ND	
1,1-Dichloropropene	2.0	10	ND	
Benzene	2.2	10	ND	
TAME	2.3	10	ND	
1,2-Dichloroethane	2.3	10	ND	
Trichloroethylene	1.8	10	ND	
Dibromomethane	1.8	10	ND	
1,2-Dichloropropane	1.9	10	ND	
Bromodichloromethane	2.0	10	ND	
cis-1,3-Dichloropropene	1.6	10	ND	
Toluene	1.8	10	ND	
Tetrachloroethylene	1.7	10	ND	
trans-1,3-Dichloropropene	1.6	10	ND	
1,1,2-Trichloroethane	1.8	10	ND	
Dibromochloromethane	1.9	10	ND	
1,3-Dichloropropane	1.8	10	ND	
1,2-Dibromoethane	1.8	10	ND	
Chlorobenzene	1.8	10	ND	
Ethyl Benzene	1.7	10	ND	
1,1,1,2-Tetrachloroethane	1.9	10	ND	
m,p-Xylene	3.2	10	ND	
o-Xylene	1.7	10	ND	



MB Summary Report

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/03/17	Prep Batch:	7246
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Styrene	1.6	10	ND	
Bromoform	1.7	10	ND	
Isopropyl Benzene	1.6	10	ND	
n-Propylbenzene	1.6	10	ND	
Bromobenzene	1.8	10	ND	
1,1,2,2-Tetrachloroethane	1.9	10	ND	
2-Chlorotoluene	1.8	10	ND	
1,3,5-Trimethylbenzene	1.6	10	ND	
1,2,3-Trichloropropane	1.9	10	ND	
4-Chlorotoluene	1.6	10	ND	
tert-Butylbenzene	1.6	10	ND	
1,2,4-Trimethylbenzene	1.4	10	ND	
sec-Butyl Benzene	1.6	10	ND	
p-Isopropyltoluene	1.5	10	ND	
1,3-Dichlorobenzene	1.7	10	ND	
1,4-Dichlorobenzene	1.7	10	ND	
n-Butylbenzene	1.5	10	ND	
1,2-Dichlorobenzene	1.8	10	ND	
1,2-Dibromo-3-Chloropropane	1.8	10	ND	
Hexachlorobutadiene	1.4	10	1.6	
1,2,4-Trichlorobenzene	1.5	10	ND	
Naphthalene	1.7	10	2.0	
1,2,3-Trichlorobenzene	1.7	10	2.4	
2-Butanone (MEK)	1.7	10	ND	
(S) Dibromofluoromethane			75.4	
(S) Toluene-d8			133	S
(S) 4-Bromofluorobenzene			123	

Work Order:	1706009	Prep Method:	5035GRO	Prep Date:	06/03/17	Prep Batch:	7247
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	43	100	ND	
(S) 4-Bromofluorobenzene			74.8	



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/02/17	Prep Batch:	7207
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/2/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	130	132	1.83	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	118	111	5.59	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	86.0	79.9	7.23	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	123	121	1.80	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	95.5	90.8	4.94	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	84.1	78.5		59.8 - 148		
(S) Toluene-d8				50.0	118	109		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	125	121		55.8 - 141		
2-Butanone (MEK)			ND					-		

Work Order:	1706009	Prep Method:	5035GRO	Prep Date:	06/02/17	Prep Batch:	7208
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424532
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	43	100	ND	1000	101	91.3	10.1	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	82.7	80.2		43.9 - 127		

Work Order:	1706009	Prep Method:	3546_TPHSG	Prep Date:	06/05/17	Prep Batch:	7225
Matrix:	Soil	Analytical Method:	SW8015B	Analyzed Date:	6/6/2017	Analytical Batch:	424572
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.85	2.0	ND	25.0	68.3	83.3		52 - 115	30	
TPH as Motor Oil (SG)			ND	200				59 - 129		



LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1706009	Prep Method:	5035	Prep Date:	06/03/17	Prep Batch:	7246
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/3/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	2.0	10	ND	50.0	117	121	3.03	53.7 - 139	30	
Benzene	2.2	10	ND	50.0	104	104	0.000	66.5 - 135	30	
Trichloroethylene	1.8	10	ND	50.0	74.2	74.5	0.538	57.5 - 150	30	
Toluene	1.8	10	ND	50.0	114	121	5.96	56.8 - 134	30	
Chlorobenzene	1.8	10	ND	50.0	85.0	104	20.1	57.4 - 134	30	
(S) Dibromofluoromethane				50.0	75.0	71.5		59.8 - 148		
(S) Toluene-d8				50.0	113	108		55.2 - 133		
(S) 4-Bromofluorobenzene				50.0	120	115		55.8 - 141		
2-Butanone (MEK)			ND					-		

Work Order:	1706009	Prep Method:	5035GRO	Prep Date:	06/03/17	Prep Batch:	7247
Matrix:	Soil	Analytical Method:	SW8260B	Analyzed Date:	6/5/2017	Analytical Batch:	424562
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	43	100	ND	1000	95.1	99.4	4.42	48.2 - 132	30	
(S) 4-Bromofluorobenzene				50	79.4	85.8		43.9 - 127		



Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit/Reporting Limit/Limit of Quantitation (PQL/RL/LOQ) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs/RLs/LODs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - mg/L and mg/Kg (equivalent to PPM - parts per million in liquid and solid), ug/L and ug/Kg (equivalent to PPB - parts per billion in liquid and solid), ug/m3 , mg/m3 , ppbv and ppmv (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), ug/Wipe (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the analyte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
ND - Not Detected at a concentration greater than the PQL/RL or, if reported to the MDL, at greater than the MDL.
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.



Sample Receipt Checklist

Client Name: Engeo Inc (SJ)

Date and Time Received: 6/1/2017 3:00:00PM

Project Name: Fort Ord - Surplus II Areas

Received By: ke

Work Order No.: 1706009

Physically Logged By: Navin Ghodasara

Checklist Completed By:

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	<u>Yes</u>
Chain of custody signed when relinquished and received?	<u>Yes</u>
Chain of custody agrees with sample labels?	<u>Yes</u>
Custody seals intact on sample bottles?	<u>Not Present</u>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	<u>Not Present</u>
Shipping Container/Cooler In Good Condition?	<u>Yes</u>
Samples in proper container/bottle?	<u>Yes</u>
Samples containers intact?	<u>Yes</u>
Sufficient sample volume for indicated test?	<u>Yes</u>

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	<u>Yes</u>
Container/Temp Blank temperature in compliance?	Temperature: <u>2.0</u> °C
Water-VOA vials have zero headspace?	<u>No VOA vials submitted</u>
Water-pH acceptable upon receipt?	<u>N/A</u>
pH Checked by: <u>na</u>	pH Adjusted by: <u>na</u>

Comments:



Login Summary Report

Client ID: TL5224 Engeo Inc (SJ)
Project Name: Fort Ord - Surplus II Areas
Project # :
Report Due Date: 6/6/2017

QC Level: II
TAT Requested: 3 Day Std:3
Date Received: 6/1/2017
Time Received: 3:00 pm

Comments:

Work Order # : 1706009

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1706009-001A	S1 @ 10'	05/31/17 14:20	Soil	11/28/17			VOC_S_GRO TPHDOSG_S_8015B VOC_S_8260B	
Sample Note: Std 3 Day TAT. TPHg, VOCs, TPHd, mo with silica gel c/up.								
1706009-002A	S1 @ 15'	05/31/17 14:25	Soil	11/28/17				
1706009-003A	S1 @ 20'	05/31/17 14:30	Soil	11/28/17			Hold Samples	
1706009-004A	S1 @ 25'	05/31/17 14:35	Soil	11/28/17			Hold Samples	
1706009-005A	S2 @ 5'	05/31/17 11:10	Soil	11/28/17			Hold Samples	
							TPHDOSG_S_8015B VOC_S_8260B VOC_S_GRO	
1706009-006A	S2 @ 10'	05/31/17 13:15	Soil	11/28/17			Hold Samples	
1706009-007A	S2 @ 15'	05/31/17 11:20	Soil	11/28/17			Hold Samples	
1706009-008A	S2 @ 20'	05/31/17 11:25	Soil	11/28/17			Hold Samples	
1706009-009A	S3 @ 5'	05/31/17 17:10	Soil	11/28/17			Hold Samples	
							TPHDOSG_S_8015B VOC_S_GRO VOC_S_8260B	
1706009-010A	S3 @ 10'	05/31/17 17:15	Soil	11/28/17			Hold Samples	
1706009-011A	S3 @ 15'	05/31/17 17:20	Soil	11/28/17			Hold Samples	
1706009-012A	S3 @ 20'	05/31/17 17:25	Soil	11/28/17			Hold Samples	

1706009

[illegible]

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APPENDIX 2
ANALYTICAL LABORATORY REPORTS



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 444715
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	444715
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
1-SOIL 01	444715-001	04/29/21 12:00	Soil
1-SOIL 02	444715-002	04/28/21 10:00	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 444715
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/30/21. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Low recovery was observed for TPH gasoline in the MS for batch 266614; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015M):

Low recovery was observed for diesel C10-C28 in the LCS for batch 266535; the low recovery was not associated with any reported results. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

1-SOIL 02 (lab # 444715-002) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

Pesticides (EPA 8081A):

Low recovery was observed for endrin in the MSD for batch 266559; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for endrin in the MS/MSD for batch 266559; this analyte was not detected at or above the RL in the associated samples. 1-SOIL 01 (lab # 444715-001) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1-SOIL 01 (lab # 444715-001); the LCS was within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 444715
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

Sample ID: 1-SOIL 01

Lab ID: 444715-001

Collected: 04/29/21 12:00

Matrix: Soil

444715-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.8		mg/Kg	0.97	0.65
Barium	150		mg/Kg	0.97	
Chromium	33		mg/Kg	0.97	
Cobalt	4.2		mg/Kg	0.49	
Copper	15		mg/Kg	0.97	
Lead	180		mg/Kg	0.97	
Nickel	15		mg/Kg	0.97	
Vanadium	17		mg/Kg	0.97	
Zinc	190		mg/Kg	4.9	
Method: EPA 7471A					
Prep Method: METHOD					
Mercury	0.21		mg/Kg	0.14	
Method: EPA 8015M					
Prep Method: EPA 3580					
DRO C10-C28 (SGCU)	50		mg/Kg	38	
ORO C28-C44 (SGCU)	140		mg/Kg	77	
Method: EPA 8081A					
Prep Method: EPA 3546					
4,4'-DDT	32		ug/Kg	25	
Method: EPA 8082					
Prep Method: EPA 3546					
Aroclor-1260	35		ug/Kg	20	
Method: EPA 8260B					
Prep Method: EPA 5035					
Acetone	850		ug/Kg	280	

Detection Summary

Sample ID: 1-SOIL 02
Lab ID: 444715-002
Collected: 04/28/21 10:00
Matrix: Soil
444715-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.2		mg/Kg	1.1	0.74
Barium	21		mg/Kg	1.1	
Chromium	13		mg/Kg	1.1	
Cobalt	73		mg/Kg	0.55	
Copper	3.9		mg/Kg	1.1	
Lead	1.6		mg/Kg	1.1	
Nickel	13		mg/Kg	1.1	
Vanadium	12		mg/Kg	1.1	
Zinc	7.6		mg/Kg	5.5	
Method: EPA 7196A					
Prep Method: EPA 3060A					
Hexavalent Chromium	3.6		mg/Kg	0.80	0.26
Method: EPA 8260B					
Prep Method: EPA 5035					
Naphthalene	11		ug/Kg	8.9	
Method: EPA 8270C					
Prep Method: EPA 3546					
bis(2-Ethylhexyl)phthalate	550		ug/Kg	500	

SGCU Silica gel cleanup

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 441715
Date Received: 4/30/21

Client: Vista
Project: _____



Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/30/21 By (print) MTG (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☒ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☒ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____ or IR Gun # ☐ B ☒ C

Cooler Temp (°C): #1: 3.7, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?	☒		
If YES, what time were they transferred to freezer? <u>4/30/21 1330</u>			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?			☒
Was the client contacted concerning this sample delivery?		☒	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____	added to samples _____	on/at _____
☐ HCL lot# _____	added to samples _____	on/at _____
☐ HNO3 lot# _____	added to samples _____	on/at _____
☐ NaOH lot# _____	added to samples _____	on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time.

Date Logged in 4/30/21 By (print) MTG for ZLA (sign) [Signature]
Date Labeled 4/30/21 By (print) MTG (sign) [Signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista Environmental

Project: City of Seaside - Former Fort Ord

Date Received: 5/4/21

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C)
(No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 4.0 #2: _____ #3: _____ #4: _____

(Acceptance range is < 5°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: GLS

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 0.8 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?		☒	
If custody seals are present, were they intact?			☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			☒
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)	☒		
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By:  Date: 5/4/21



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553178430

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

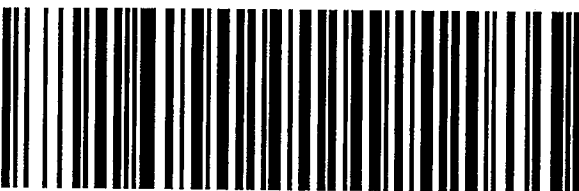
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S92868A



41313812

ORC CA927-CI1

Print Date: 5/3/2021 3:03 PM

Package 1 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

0-8 / 4-0

Gasoline by GC/FID (5035 Prep)

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: SAMPLE	Batch#: 266583	Prep: EPA 5030B
Lab ID: 444715-001	Sampled: 04/29/21	Analysis: EPA 8015B
Matrix: Soil	Received: 04/30/21	Analyst: EMW

Analyte	Result	RL	Units	Diln Fac	Analyzed
TPH Gasoline	ND	4.7	mg/Kg	1.560	05/06/21
Surrogate		%REC	Limits	Diln Fac	Analyzed
Bromofluorobenzene (FID)		85	60-140	1.000	05/06/21

Field ID: 1-SOIL 02	Basis: as received	Prepared: 05/06/21
Type: SAMPLE	Batch#: 266614	Prep: EPA 5030B
Lab ID: 444715-002	Sampled: 04/28/21	Analysis: EPA 8015B
Matrix: Soil	Received: 04/30/21	Analyst: EMW

Analyte	Result	RL	Units	Diln Fac	Analyzed
TPH Gasoline	ND	3.6	mg/Kg	1.190	05/07/21
Surrogate		%REC	Limits	Diln Fac	Analyzed
Bromofluorobenzene (FID)		90	60-140	1.000	05/06/21

Type: BLANK	Batch#: 266583	Analysis: EPA 8015B
Lab ID: QC923446	Prepared: 05/05/21	Analyst: EMW
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 5030B	

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Type: BLANK	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923520	Prepared: 05/06/21	Analyst: EMW
Matrix: Soil	Analyzed: 05/06/21	
Diln Fac: 1.000	Prep: EPA 5030B	

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Legend
ND: Not Detected
RL: Reporting Limit

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444715		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923443		Batch#: 266583		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/05/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.261	105	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			130	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/05/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444731-001	Batch#: 266583	Analysis: EPA 8015B
Lab ID: QC923444	Sampled: 04/22/21	Analyst: EMW
Matrix: Soil	Received: 04/30/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	5.058	101	70-130	mg/Kg
Surrogate				%REC	Limits	
Bromofluorobenzene (FID)				135	60-140	

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/05/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444731-001	Batch#: 266583	Analysis: EPA 8015B
Lab ID: QC923445	Sampled: 04/22/21	Analyst: EMW
Matrix: Soil	Received: 04/30/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	5.037	101	70-130	mg/Kg	0	20
Surrogate				%REC	Limits		
Bromofluorobenzene (FID)				135	60-140		

Legend

RPD: Relative Percent Difference

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444715		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923517		Batch#: 266614		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/06/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.418	108	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			135	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923518	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	3.437	69 *	70-130	mg/Kg
Surrogate				%REC	Limits	
Bromofluorobenzene (FID)				105	60-140	

Field ID: ZZZZZZZZZZ		Basis: as received			Analyzed: 05/06/21		
Type: MSD		Diln Fac: 1.000			Prep: EPA 5030B		
MSS Lab ID: 444678-002		Batch#: 266614			Analysis: EPA 8015B		
Lab ID: QC923519		Sampled: 04/29/21			Analyst: EMW		
Matrix: Soil		Received: 04/29/21					
Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	3.537	71	70-130	mg/Kg	3	20
Surrogate					%REC	Limits	
Bromofluorobenzene (FID)					110	60-140	

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Extractable Carbon Chain

Lab #: 444715		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Diln Fac: 1.000	Analyzed: 05/05/21	
Type: SAMPLE	Batch#: 266535	Prep: EPA 3580	
Lab ID: 444715-001	Sampled: 04/29/21	Cleanup Method: EPA 3630C	
Matrix: Soil	Received: 04/30/21	Analysis: EPA 8015M	
Basis: as received	Prepared: 05/05/21	Analyst: MES	

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	50	38	mg/Kg
ORO C28-C44 (SGCU)	140	77	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	101	70-130	

Field ID: 1-SOIL 02	Diln Fac: 1.000	Analyzed: 05/05/21	
Type: SAMPLE	Batch#: 266535	Prep: EPA 3580	
Lab ID: 444715-002	Sampled: 04/28/21	Cleanup Method: EPA 3630C	
Matrix: Soil	Received: 04/30/21	Analysis: EPA 8015M	
Basis: as received	Prepared: 05/05/21	Analyst: MES	

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	88	70-130	

Type: BLANK	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923298	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	94	70-130	

Legend
 (SGCU): Silica gel cleanup
 ND: Not Detected
 RL: Reporting Limit

Extractable Carbon Chain: Batch QC

Lab #: 444715		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923299	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	247.5	156.0	63 *	76-122	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	87	70-130

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

Extractable Carbon Chain: Batch QC

Lab #: 444715		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MS	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923300	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	3.186	250.0	182.1	72	62-126	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MSD	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923301	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Diesel C10-C28 (SGCU)	250.0	184.3	72	62-126	mg/Kg	1	35

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Legend

(SGCU): Silica gel cleanup

RPD: Relative Percent Difference

Purgeable Organics by GC/MS

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Diln Fac: 2.778	Analyzed: 05/06/21
Lab ID: 444715-001	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	14	ug/Kg
Chloromethane	ND	14	ug/Kg
Vinyl Chloride	ND	14	ug/Kg
Bromomethane	ND	14	ug/Kg
Chloroethane	ND	14	ug/Kg
Trichlorofluoromethane	ND	14	ug/Kg
Acetone	850	280	ug/Kg
Freon 113	ND	14	ug/Kg
1,1-Dichloroethene	ND	14	ug/Kg
Methylene Chloride	ND	14	ug/Kg
MTBE	ND	14	ug/Kg
trans-1,2-Dichloroethene	ND	14	ug/Kg
1,1-Dichloroethane	ND	14	ug/Kg
2-Butanone	ND	280	ug/Kg
cis-1,2-Dichloroethene	ND	14	ug/Kg
2,2-Dichloropropane	ND	14	ug/Kg
Chloroform	ND	14	ug/Kg
Bromochloromethane	ND	14	ug/Kg
1,1,1-Trichloroethane	ND	14	ug/Kg
1,1-Dichloropropene	ND	14	ug/Kg
Carbon Tetrachloride	ND	14	ug/Kg
1,2-Dichloroethane	ND	14	ug/Kg
Benzene	ND	14	ug/Kg
Trichloroethene	ND	14	ug/Kg
1,2-Dichloropropane	ND	14	ug/Kg
Bromodichloromethane	ND	14	ug/Kg
Dibromomethane	ND	14	ug/Kg
4-Methyl-2-Pentanone	ND	14	ug/Kg
cis-1,3-Dichloropropene	ND	14	ug/Kg
Toluene	ND	14	ug/Kg
trans-1,3-Dichloropropene	ND	14	ug/Kg
1,1,2-Trichloroethane	ND	14	ug/Kg
1,3-Dichloropropane	ND	14	ug/Kg
Tetrachloroethene	ND	14	ug/Kg
Dibromochloromethane	ND	14	ug/Kg
1,2-Dibromoethane	ND	14	ug/Kg
Chlorobenzene	ND	14	ug/Kg
1,1,1,2-Tetrachloroethane	ND	14	ug/Kg
Ethylbenzene	ND	14	ug/Kg
m,p-Xylenes	ND	28	ug/Kg
o-Xylene	ND	14	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	14	ug/Kg
Bromoform	ND	14	ug/Kg
Isopropylbenzene	ND	14	ug/Kg
1,1,2,2-Tetrachloroethane	ND	14	ug/Kg
1,2,3-Trichloropropane	ND	14	ug/Kg
Propylbenzene	ND	14	ug/Kg
Bromobenzene	ND	14	ug/Kg
1,3,5-Trimethylbenzene	ND	14	ug/Kg
2-Chlorotoluene	ND	14	ug/Kg
4-Chlorotoluene	ND	14	ug/Kg
tert-Butylbenzene	ND	14	ug/Kg
1,2,4-Trimethylbenzene	ND	14	ug/Kg
sec-Butylbenzene	ND	14	ug/Kg
para-Isopropyl Toluene	ND	14	ug/Kg
1,3-Dichlorobenzene	ND	14	ug/Kg
1,4-Dichlorobenzene	ND	14	ug/Kg
n-Butylbenzene	ND	14	ug/Kg
1,2-Dichlorobenzene	ND	14	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	14	ug/Kg
1,2,4-Trichlorobenzene	ND	14	ug/Kg
Hexachlorobutadiene	ND	14	ug/Kg
Naphthalene	ND	14	ug/Kg
1,2,3-Trichlorobenzene	ND	14	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	94	70-145	
1,2-Dichloroethane-d4	104	70-145	
Toluene-d8	106	70-145	
Bromofluorobenzene	97	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Diln Fac: 1.786	Analyzed: 05/06/21
Lab ID: 444715-002	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/28/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	8.9	ug/Kg
Chloromethane	ND	8.9	ug/Kg
Vinyl Chloride	ND	8.9	ug/Kg
Bromomethane	ND	8.9	ug/Kg
Chloroethane	ND	8.9	ug/Kg
Trichlorofluoromethane	ND	8.9	ug/Kg
Acetone	ND	180	ug/Kg
Freon 113	ND	8.9	ug/Kg
1,1-Dichloroethene	ND	8.9	ug/Kg
Methylene Chloride	ND	8.9	ug/Kg
MTBE	ND	8.9	ug/Kg
trans-1,2-Dichloroethene	ND	8.9	ug/Kg
1,1-Dichloroethane	ND	8.9	ug/Kg
2-Butanone	ND	180	ug/Kg
cis-1,2-Dichloroethene	ND	8.9	ug/Kg
2,2-Dichloropropane	ND	8.9	ug/Kg
Chloroform	ND	8.9	ug/Kg
Bromochloromethane	ND	8.9	ug/Kg
1,1,1-Trichloroethane	ND	8.9	ug/Kg
1,1-Dichloropropene	ND	8.9	ug/Kg
Carbon Tetrachloride	ND	8.9	ug/Kg
1,2-Dichloroethane	ND	8.9	ug/Kg
Benzene	ND	8.9	ug/Kg
Trichloroethene	ND	8.9	ug/Kg
1,2-Dichloropropane	ND	8.9	ug/Kg
Bromodichloromethane	ND	8.9	ug/Kg
Dibromomethane	ND	8.9	ug/Kg
4-Methyl-2-Pentanone	ND	8.9	ug/Kg
cis-1,3-Dichloropropene	ND	8.9	ug/Kg
Toluene	ND	8.9	ug/Kg
trans-1,3-Dichloropropene	ND	8.9	ug/Kg
1,1,2-Trichloroethane	ND	8.9	ug/Kg
1,3-Dichloropropane	ND	8.9	ug/Kg
Tetrachloroethene	ND	8.9	ug/Kg
Dibromochloromethane	ND	8.9	ug/Kg
1,2-Dibromoethane	ND	8.9	ug/Kg
Chlorobenzene	ND	8.9	ug/Kg
1,1,1,2-Tetrachloroethane	ND	8.9	ug/Kg
Ethylbenzene	ND	8.9	ug/Kg
m,p-Xylenes	ND	18	ug/Kg
o-Xylene	ND	8.9	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	8.9	ug/Kg
Bromoform	ND	8.9	ug/Kg
Isopropylbenzene	ND	8.9	ug/Kg
1,1,2,2-Tetrachloroethane	ND	8.9	ug/Kg
1,2,3-Trichloropropane	ND	8.9	ug/Kg
Propylbenzene	ND	8.9	ug/Kg
Bromobenzene	ND	8.9	ug/Kg
1,3,5-Trimethylbenzene	ND	8.9	ug/Kg
2-Chlorotoluene	ND	8.9	ug/Kg
4-Chlorotoluene	ND	8.9	ug/Kg
tert-Butylbenzene	ND	8.9	ug/Kg
1,2,4-Trimethylbenzene	ND	8.9	ug/Kg
sec-Butylbenzene	ND	8.9	ug/Kg
para-Isopropyl Toluene	ND	8.9	ug/Kg
1,3-Dichlorobenzene	ND	8.9	ug/Kg
1,4-Dichlorobenzene	ND	8.9	ug/Kg
n-Butylbenzene	ND	8.9	ug/Kg
1,2-Dichlorobenzene	ND	8.9	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	8.9	ug/Kg
1,2,4-Trichlorobenzene	ND	8.9	ug/Kg
Hexachlorobutadiene	ND	8.9	ug/Kg
Naphthalene	11	8.9	ug/Kg
1,2,3-Trichlorobenzene	ND	8.9	ug/Kg

Surrogate	%REC	Limits
Dibromofluoromethane	93	70-145
1,2-Dichloroethane-d4	106	70-145
Toluene-d8	102	70-145
Bromofluorobenzene	96	70-145

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Diln Fac: 1.000	Prep: EPA 5035
Lab ID: QC923448	Batch#: 266584	Analysis: EPA 8260B
Matrix: Soil	Analyzed: 05/05/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	5.0	ug/Kg
Chloromethane	ND	5.0	ug/Kg
Vinyl Chloride	ND	5.0	ug/Kg
Bromomethane	ND	5.0	ug/Kg
Chloroethane	ND	5.0	ug/Kg
Trichlorofluoromethane	ND	5.0	ug/Kg
Acetone	ND	100	ug/Kg
Freon 113	ND	5.0	ug/Kg
1,1-Dichloroethene	ND	5.0	ug/Kg
Methylene Chloride	ND	5.0	ug/Kg
MTBE	ND	5.0	ug/Kg
trans-1,2-Dichloroethene	ND	5.0	ug/Kg
1,1-Dichloroethane	ND	5.0	ug/Kg
2-Butanone	ND	100	ug/Kg
cis-1,2-Dichloroethene	ND	5.0	ug/Kg
2,2-Dichloropropane	ND	5.0	ug/Kg
Chloroform	ND	5.0	ug/Kg
Bromochloromethane	ND	5.0	ug/Kg
1,1,1-Trichloroethane	ND	5.0	ug/Kg
1,1-Dichloropropene	ND	5.0	ug/Kg
Carbon Tetrachloride	ND	5.0	ug/Kg
1,2-Dichloroethane	ND	5.0	ug/Kg
Benzene	ND	5.0	ug/Kg
Trichloroethene	ND	5.0	ug/Kg
1,2-Dichloropropane	ND	5.0	ug/Kg
Bromodichloromethane	ND	5.0	ug/Kg
Dibromomethane	ND	5.0	ug/Kg
4-Methyl-2-Pentanone	ND	5.0	ug/Kg
cis-1,3-Dichloropropene	ND	5.0	ug/Kg
Toluene	ND	5.0	ug/Kg
trans-1,3-Dichloropropene	ND	5.0	ug/Kg
1,1,2-Trichloroethane	ND	5.0	ug/Kg
1,3-Dichloropropane	ND	5.0	ug/Kg
Tetrachloroethene	ND	5.0	ug/Kg
Dibromochloromethane	ND	5.0	ug/Kg
1,2-Dibromoethane	ND	5.0	ug/Kg
Chlorobenzene	ND	5.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg
Ethylbenzene	ND	5.0	ug/Kg
m,p-Xylenes	ND	10	ug/Kg
o-Xylene	ND	5.0	ug/Kg
Styrene	ND	5.0	ug/Kg

Purgeable Organics by GC/MS: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Bromoform	ND	5.0	ug/Kg
Isopropylbenzene	ND	5.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg
1,2,3-Trichloropropane	ND	5.0	ug/Kg
Propylbenzene	ND	5.0	ug/Kg
Bromobenzene	ND	5.0	ug/Kg
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg
2-Chlorotoluene	ND	5.0	ug/Kg
4-Chlorotoluene	ND	5.0	ug/Kg
tert-Butylbenzene	ND	5.0	ug/Kg
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg
sec-Butylbenzene	ND	5.0	ug/Kg
para-Isopropyl Toluene	ND	5.0	ug/Kg
1,3-Dichlorobenzene	ND	5.0	ug/Kg
1,4-Dichlorobenzene	ND	5.0	ug/Kg
n-Butylbenzene	ND	5.0	ug/Kg
1,2-Dichlorobenzene	ND	5.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg
Hexachlorobutadiene	ND	5.0	ug/Kg
Naphthalene	ND	5.0	ug/Kg
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	98	70-130	
1,2-Dichloroethane-d4	107	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BS

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923449

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units
1,1-Dichloroethene	50.00	51.26	103	70-131	ug/Kg
MTBE	50.00	48.03	96	69-130	ug/Kg
Benzene	50.00	49.31	99	70-130	ug/Kg
Trichloroethene	50.00	49.52	99	70-130	ug/Kg
Toluene	50.00	50.96	102	70-130	ug/Kg
Chlorobenzene	50.00	50.41	101	70-130	ug/Kg

Surrogate	%REC	Limits
Dibromofluoromethane	94	70-130
1,2-Dichloroethane-d4	94	70-145
Toluene-d8	105	70-145
Bromofluorobenzene	103	70-145

Type: BSD

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923450

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
1,1-Dichloroethene	50.00	53.82	108	70-131	ug/Kg	5	33
MTBE	50.00	51.69	103	69-130	ug/Kg	7	30
Benzene	50.00	52.61	105	70-130	ug/Kg	6	30
Trichloroethene	50.00	50.41	101	70-130	ug/Kg	2	30
Toluene	50.00	51.84	104	70-130	ug/Kg	2	30
Chlorobenzene	50.00	51.66	103	70-130	ug/Kg	2	30

Surrogate	%REC	Limits
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	99	70-145
Toluene-d8	102	70-145
Bromofluorobenzene	101	70-145

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL 01

Batch#: 266537

Prep: EPA 3546

Lab ID: 444715-001

Sampled: 04/29/21

Analysis: EPA 8270C

Matrix: Soil

Received: 04/30/21

Analyst: DJL

Basis: as received

Prepared: 05/05/21

Diln Fac: 1.000

Analyzed: 05/06/21

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	58	29-120
Phenol-d6	58	30-120
2,4,6-Tribromophenol	51	32-120
Nitrobenzene-d5	52	33-120
2-Fluorobiphenyl	51	39-120
Terphenyl-d14	55	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Batch#: 266537	Prep: EPA 3546
Lab ID: 444715-002	Sampled: 04/28/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 2.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
Carbazole	ND	500	ug/Kg
1-Methylnaphthalene	ND	500	ug/Kg
Pyridine	ND	500	ug/Kg
N-Nitrosodimethylamine	ND	500	ug/Kg
Phenol	ND	500	ug/Kg
Aniline	ND	500	ug/Kg
bis(2-Chloroethyl)ether	ND	2,400	ug/Kg
2-Chlorophenol	ND	500	ug/Kg
1,3-Dichlorobenzene	ND	500	ug/Kg
1,4-Dichlorobenzene	ND	500	ug/Kg
Benzyl alcohol	ND	500	ug/Kg
1,2-Dichlorobenzene	ND	500	ug/Kg
2-Methylphenol	ND	500	ug/Kg
bis(2-Chloroisopropyl) ether	ND	500	ug/Kg
3-,4-Methylphenol	ND	800	ug/Kg
N-Nitroso-di-n-propylamine	ND	500	ug/Kg
Hexachloroethane	ND	500	ug/Kg
Nitrobenzene	ND	2,400	ug/Kg
Isophorone	ND	500	ug/Kg
2-Nitrophenol	ND	500	ug/Kg
2,4-Dimethylphenol	ND	500	ug/Kg
Benzoic acid	ND	2,400	ug/Kg
bis(2-Chloroethoxy)methane	ND	500	ug/Kg
2,4-Dichlorophenol	ND	500	ug/Kg
1,2,4-Trichlorobenzene	ND	500	ug/Kg
Naphthalene	ND	500	ug/Kg
4-Chloroaniline	ND	500	ug/Kg
Hexachlorobutadiene	ND	500	ug/Kg
4-Chloro-3-methylphenol	ND	500	ug/Kg
2-Methylnaphthalene	ND	500	ug/Kg
Hexachlorocyclopentadiene	ND	2,400	ug/Kg
2,4,6-Trichlorophenol	ND	500	ug/Kg
2,4,5-Trichlorophenol	ND	500	ug/Kg
2-Chloronaphthalene	ND	500	ug/Kg
2-Nitroaniline	ND	500	ug/Kg
Dimethylphthalate	ND	500	ug/Kg
Acenaphthylene	ND	500	ug/Kg
2,6-Dinitrotoluene	ND	500	ug/Kg
3-Nitroaniline	ND	500	ug/Kg
Acenaphthene	ND	500	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	2,400	ug/Kg
4-Nitrophenol	ND	500	ug/Kg
Dibenzofuran	ND	500	ug/Kg
2,4-Dinitrotoluene	ND	500	ug/Kg
Diethylphthalate	ND	500	ug/Kg
Fluorene	ND	500	ug/Kg
4-Chlorophenyl-phenylether	ND	500	ug/Kg
4-Nitroaniline	ND	500	ug/Kg
4,6-Dinitro-2-methylphenol	ND	500	ug/Kg
N-Nitrosodiphenylamine	ND	500	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	500	ug/Kg
4-Bromophenyl-phenylether	ND	500	ug/Kg
Hexachlorobenzene	ND	500	ug/Kg
Pentachlorophenol	ND	2,400	ug/Kg
Phenanthrene	ND	500	ug/Kg
Anthracene	ND	500	ug/Kg
Di-n-butylphthalate	ND	500	ug/Kg
Fluoranthene	ND	500	ug/Kg
Benzidine	ND	2,400	ug/Kg
Pyrene	ND	500	ug/Kg
Butylbenzylphthalate	ND	500	ug/Kg
3,3'-Dichlorobenzidine	ND	2,400	ug/Kg
Benzo(a)anthracene	ND	500	ug/Kg
Chrysene	ND	500	ug/Kg
bis(2-Ethylhexyl)phthalate	550	500	ug/Kg
Di-n-octylphthalate	ND	500	ug/Kg
Benzo(b)fluoranthene	ND	500	ug/Kg
Benzo(k)fluoranthene	ND	500	ug/Kg
Benzo(a)pyrene	ND	500	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	500	ug/Kg
Dibenz(a,h)anthracene	ND	500	ug/Kg
Benzo(g,h,i)perylene	ND	500	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	31	29-120
Phenol-d6	36	30-120
2,4,6-Tribromophenol	48	32-120
Nitrobenzene-d5	34	33-120
2-Fluorobiphenyl	45	39-120
Terphenyl-d14	55	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266537

Analysis: EPA 8270C

Lab ID: QC923305

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg
Surrogate	%REC	Limits	
2-Fluorophenol	56	29-120	
Phenol-d6	55	30-120	
2,4,6-Tribromophenol	47	32-120	
Nitrobenzene-d5	50	33-120	
2-Fluorobiphenyl	49	39-120	
Terphenyl-d14	71	44-125	
Legend			
ND: Not Detected			
RL: Reporting Limit			

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266537	Analysis: EPA 8270C
Lab ID: QC923306	Prepared: 05/05/21	Analyst: DJL
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,299	65	42-120	ug/Kg
2-Chlorophenol	2,000	1,302	65	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,260	63	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,393	70	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,229	61	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,278	64	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,296	65	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,402	70	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,332	67	40-124	ug/Kg
Acenaphthene	2,000	1,232	62	35-126	ug/Kg
4-Nitrophenol	2,000	1,200	60	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,299	65	40-131	ug/Kg
Pentachlorophenol	2,000	1,038	52	35-120	ug/Kg
Pyrene	2,000	1,263	63	37-135	ug/Kg
Chrysene	2,000	1,306	65	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,401	70	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			67	29-120	
Phenol-d6			72	30-120	
2,4,6-Tribromophenol			64	32-120	
Nitrobenzene-d5			69	33-120	
2-Fluorobiphenyl			65	39-120	
Terphenyl-d14			66	44-125	

Organochlorine Pesticides

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444715-001	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 5.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	25	ug/Kg
beta-BHC	ND	25	ug/Kg
gamma-BHC	ND	25	ug/Kg
delta-BHC	ND	25	ug/Kg
Heptachlor	ND	25	ug/Kg
Aldrin	ND	25	ug/Kg
Heptachlor epoxide	ND	25	ug/Kg
Endosulfan I	ND	25	ug/Kg
Dieldrin	ND	25	ug/Kg
4,4'-DDE	ND	25	ug/Kg
Endrin	ND	25	ug/Kg
Endosulfan II	ND	25	ug/Kg
Endosulfan sulfate	ND	25	ug/Kg
4,4'-DDD	ND	25	ug/Kg
Endrin aldehyde	ND	25	ug/Kg
Endrin ketone	ND	25	ug/Kg
4,4'-DDT	32	25	ug/Kg
Methoxychlor	ND	50	ug/Kg
Toxaphene	ND	500	ug/Kg
Chlordane (Technical)	ND	250	ug/Kg

Surrogate	%REC	Limits
TCMX	66	23-120
Decachlorobiphenyl	72	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Batch#: 266559	Prep: EPA 3546
Lab ID: 444715-002	Sampled: 04/28/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	45	23-120
Decachlorobiphenyl	40	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	54	23-120
Decachlorobiphenyl	55	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923377	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
alpha-BHC	50.00	31.96	64	22-129	ug/Kg
beta-BHC	50.00	32.55	65	28-125	ug/Kg
gamma-BHC	50.00	32.43	65	22-128	ug/Kg
delta-BHC	50.00	32.37	65	24-131	ug/Kg
Heptachlor	50.00	32.34	65	18-124	ug/Kg
Aldrin	50.00	29.48	59	23-120	ug/Kg
Heptachlor epoxide	50.00	29.50	59	26-120	ug/Kg
Endosulfan I	50.00	32.44	65	25-126	ug/Kg
Dieldrin	50.00	32.14	64	23-124	ug/Kg
4,4'-DDE	50.00	31.77	64	28-121	ug/Kg
Endrin	50.00	32.89	66	25-127	ug/Kg
Endosulfan II	50.00	32.45	65	29-121	ug/Kg
Endosulfan sulfate	50.00	31.51	63	30-121	ug/Kg
4,4'-DDD	50.00	29.20	58	26-120	ug/Kg
Endrin aldehyde	50.00	21.32	43	10-120	ug/Kg
Endrin ketone	50.00	30.33	61	28-125	ug/Kg
4,4'-DDT	50.00	33.70	67	22-125	ug/Kg
Methoxychlor	50.00	34.76	70	28-130	ug/Kg
Surrogate			%REC	Limits	
TCMX			60	23-120	
Decachlorobiphenyl			61	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444715		Project#: 211283001				
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord				
Field ID: ZZZZZZZZZZ		Basis: as received		Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000		Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559		Prep: EPA 3546		
Lab ID: QC923378		Sampled: 04/22/21		Analysis: EPA 8081A		
Matrix: Soil		Received: 04/30/21		Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
alpha-BHC	<1.600	50.00	29.92	60	46-120	ug/Kg
beta-BHC	<1.500	50.00	29.08	58	41-120	ug/Kg
gamma-BHC	<2.000	50.00	30.42	61	41-120	ug/Kg
delta-BHC	<1.200	50.00	32.31	65	38-123	ug/Kg
Heptachlor	<1.300	50.00	26.32	53	39-120	ug/Kg
Aldrin	<1.500	50.00	28.21	56	34-120	ug/Kg
Heptachlor epoxide	<2.300	50.00	26.58	53	43-120	ug/Kg
Endosulfan I	<1.200	50.00	28.35	57	45-120	ug/Kg
Dieldrin	<2.100	50.00	28.19	56	45-120	ug/Kg
4,4'-DDE	5.593	50.00	28.74	46	34-120	ug/Kg
Endrin	<2.700	50.00	25.25	51	40-120	ug/Kg
Endosulfan II	<2.800	50.00	28.60	57	41-120	ug/Kg
Endosulfan sulfate	<3.400	50.00	28.02	56	42-120	ug/Kg
4,4'-DDD	<2.100	50.00	25.88	52	41-120	ug/Kg
Endrin aldehyde	<2.100	50.00	21.81	44	30-120	ug/Kg
Endrin ketone	<4.100	50.00	30.40	61	45-120	ug/Kg
4,4'-DDT	<2.000	50.00	30.72	61	35-127	ug/Kg
Methoxychlor	<9.200	50.00	31.27	63	42-136	ug/Kg
Surrogate				%REC	Limits	
TCMX				52	23-120	
Decachlorobiphenyl				52	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: <u>ZZZZZZZZZZ</u>	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923379	Sampled: 04/22/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
alpha-BHC	50.00	26.03	52	46-120	ug/Kg	14	30
beta-BHC	50.00	26.06	52	41-120	ug/Kg	11	30
gamma-BHC	50.00	27.07	54	41-120	ug/Kg	12	30
delta-BHC	50.00	28.63	57	38-123	ug/Kg	12	30
Heptachlor	50.00	23.65	47	39-120	ug/Kg	11	30
Aldrin	50.00	25.07	50	34-120	ug/Kg	12	30
Heptachlor epoxide	50.00	23.95	48	43-120	ug/Kg	10	30
Endosulfan I	50.00	25.82	52	45-120	ug/Kg	9	30
Dieldrin	50.00	24.26	49	45-120	ug/Kg	15	30
4,4'-DDE	50.00	26.17	41	34-120	ug/Kg	9	30
Endrin	50.00	18.27	37 *	40-120	ug/Kg	32 *	30
Endosulfan II	50.00	26.12	52	41-120	ug/Kg	9	30
Endosulfan sulfate	50.00	24.97	50	42-120	ug/Kg	11	30
4,4'-DDD	50.00	25.50	51	41-120	ug/Kg	1	30
Endrin aldehyde	50.00	20.61	41	30-120	ug/Kg	6	30
Endrin ketone	50.00	32.75	65	45-120	ug/Kg	7	30
4,4'-DDT	50.00	27.75	56	35-127	ug/Kg	10	30
Methoxychlor	50.00	28.64	57	42-136	ug/Kg	9	30

Surrogate	%REC	Limits
TCMX	48	23-120
Decachlorobiphenyl	48	24-120

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444715-001	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	35	20	ug/Kg
Surrogate	%REC		Limits
Decachlorobiphenyl (PCB)	77		19-121

Field ID: 1-SOIL 02	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444715-002	Sampled: 04/28/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate	%REC		Limits
Decachlorobiphenyl (PCB)	39		19-121

Polychlorinated Biphenyls (PCBs)

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8082
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	52	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444715		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Batch#: 266559		Analysis: EPA 8082	
Lab ID: QC923380		Prepared: 05/05/21		Analyst: KTD	
Matrix: Soil		Analyzed: 05/05/21			
Diln Fac: 1.000		Prep: EPA 3546			
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	500.0	336.9	67	14-150	ug/Kg
Aroclor-1260	500.0	339.4	68	10-150	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl (PCB)			59	19-121	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444715		Project#: 211283001					
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord					
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923381		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	
Aroclor-1016	<3.000	500.0	294.7	59	42-127	ug/Kg	
Aroclor-1260	20.38	500.0	310.9	58	38-130	ug/Kg	
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				59	19-121		
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MSD		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923382		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	500.0	310.5	62	42-127	ug/Kg	5	30
Aroclor-1260	500.0	329.9	62	38-130	ug/Kg	6	30
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				63	19-121		

Legend

RPD: Relative Percent Difference

California Title 22 Metals

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Received: 04/30/21
Lab ID: 444715-001	Diln Fac: 1.000	Prepared: 05/05/21
Matrix: Soil	Sampled: 04/29/21	Analyzed: 05/06/21

Analyte	Result	RL	MDL	Units	Batch#	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Arsenic	2.8	0.97	0.65	mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Barium	150	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.49		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.49		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Chromium	33	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Cobalt	4.2	0.49		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Copper	15	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Lead	180	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Mercury	0.21	0.14		mg/Kg	266563	METHOD	EPA 7471A	JDB
Molybdenum	ND	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Nickel	15	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Selenium	ND	2.9		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.49		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Thallium	ND	2.9		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Vanadium	17	0.97		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW
Zinc	190	4.9		mg/Kg	266545	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL 02

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444715-002

Basis: as received

Sampled: 04/28/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.3		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.2	1.1	0.74	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	21	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.55		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.55		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	13	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	73	0.55		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	3.9	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	1.6	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	13	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.3		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.55		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.3		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	7.6	5.5		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923337

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923338

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.90	99	80-120	mg/Kg
Arsenic	100.0	99.43	99	80-120	mg/Kg
Barium	100.0	98.31	98	80-120	mg/Kg
Beryllium	100.0	94.99	95	80-120	mg/Kg
Cadmium	100.0	95.29	95	80-120	mg/Kg
Chromium	100.0	97.58	98	80-120	mg/Kg
Cobalt	100.0	102.3	102	80-120	mg/Kg
Copper	100.0	95.65	96	80-120	mg/Kg
Lead	100.0	103.7	104	80-120	mg/Kg
Molybdenum	100.0	98.87	99	80-120	mg/Kg
Nickel	100.0	100.8	101	80-120	mg/Kg
Selenium	100.0	86.06	86	80-120	mg/Kg
Silver	50.00	45.81	92	80-120	mg/Kg
Thallium	100.0	99.43	99	80-120	mg/Kg
Vanadium	100.0	101.2	101	80-120	mg/Kg
Zinc	100.0	103.7	104	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923339	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.553	93.46	43.83	47 *	75-125	mg/Kg
Arsenic	2.768	93.46	93.68	97	75-125	mg/Kg
Barium	149.6	93.46	202.2	56 *	75-125	mg/Kg
Beryllium	0.08619	93.46	85.73	92	75-125	mg/Kg
Cadmium	0.4662	93.46	87.59	93	75-125	mg/Kg
Chromium	33.01	93.46	117.3	90	75-125	mg/Kg
Cobalt	4.170	93.46	96.33	99	75-125	mg/Kg
Copper	14.80	93.46	111.0	103	75-125	mg/Kg
Lead	181.3	93.46	210.4	31 *	75-125	mg/Kg
Molybdenum	<0.5728	93.46	87.06	93	75-125	mg/Kg
Nickel	15.37	93.46	103.0	94	75-125	mg/Kg
Selenium	<1.748	93.46	80.28	86	75-125	mg/Kg
Silver	<0.1553	46.73	41.48	89	75-125	mg/Kg
Thallium	<1.068	93.46	88.50	95	75-125	mg/Kg
Vanadium	17.27	93.46	109.5	99	75-125	mg/Kg
Zinc	194.9	93.46	256.6	66 *	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923340	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	46.31	47 *	75-125	mg/Kg	1	41
Arsenic	98.04	101.7	101	75-125	mg/Kg	4	35
Barium	98.04	213.7	65 *	75-125	mg/Kg	4	20
Beryllium	98.04	90.62	92	75-125	mg/Kg	1	20
Cadmium	98.04	95.42	97	75-125	mg/Kg	4	20
Chromium	98.04	126.2	95	75-125	mg/Kg	4	20
Cobalt	98.04	99.09	97	75-125	mg/Kg	2	20
Copper	98.04	108.9	96	75-125	mg/Kg	6	20
Lead	98.04	256.1	76	75-125	mg/Kg	18	20
Molybdenum	98.04	93.64	96	75-125	mg/Kg	2	20
Nickel	98.04	108.9	95	75-125	mg/Kg	1	20
Selenium	98.04	87.23	89	75-125	mg/Kg	4	20
Silver	49.02	44.97	92	75-125	mg/Kg	3	20
Thallium	98.04	95.20	97	75-125	mg/Kg	3	20
Vanadium	98.04	114.9	100	75-125	mg/Kg	1	20
Zinc	98.04	276.1	83	75-125	mg/Kg	6	20

California Title 22 Metals: Batch QC**Lab #:** 444715**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC**Lab #:** 444715**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** BLANK**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923394**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 444715**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923395**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8069	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444715	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923396	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	0.2059	0.9615	1.097	93	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923397	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	1.000	1.166	96	75-125	mg/Kg	3	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 444715		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14	
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A	
Lab ID: 444715-001	Sampled: 04/29/21 12:00	Analysis: EPA 7196A	
Matrix: Soil	Received: 04/30/21	Analyst: ATP	
Basis: as received	Prepared: 05/11/21 11:50		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1-SOIL 02	Diln Fac: 1.000	Analyzed: 05/11/21 16:14	
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A	
Lab ID: 444715-002	Sampled: 04/28/21 10:00	Analysis: EPA 7196A	
Matrix: Soil	Received: 04/30/21	Analyst: ATP	
Basis: as received	Prepared: 05/11/21 11:50		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	3.6	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 266848	Analysis: EPA 7196A	
Lab ID: QC924217	Prepared: 05/11/21 11:50	Analyst: ATP	
Matrix: Soil	Analyzed: 05/11/21 16:14		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 444715

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266848

Analysis: EPA 7196A

Lab ID: QC924218

Prepared: 05/11/21 11:50

Analyst: ATP

Matrix: Soil

Analyzed: 05/11/21 16:14

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.17	105	80-120	mg/Kg

Field ID: 5-SOIL 01

Basis: as received

Prepared: 05/11/21 11:50

Type: MS

Diln Fac: 5.000

Analyzed: 05/11/21 16:14

MSS Lab ID: 444721-001

Batch#: 266848

Prep: EPA 3060A

Lab ID: QC924219

Sampled: 04/29/21 08:00

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	35.59	89	75-125	mg/Kg

Field ID: 5-SOIL 01

Basis: as received

Prepared: 05/11/21 11:50

Type: MSD

Diln Fac: 5.000

Analyzed: 05/11/21 16:14

MSS Lab ID: 444721-001

Batch#: 266848

Prep: EPA 3060A

Lab ID: QC924220

Sampled: 04/29/21 08:00

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	36.27	91	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
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enthalpy.com

Lab Job Number: 444717
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	444717
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
2-SOIL-01	444717-001	04/29/21 13:30	Soil
2A-SOIL-01	444717-002	04/29/21 13:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 444717
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/30/21. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Low recovery was observed for TPH gasoline in the MS for batch 266614; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015M):

Low recovery was observed for diesel C10-C28 in the LCS for batch 266535; the low recovery was not associated with any reported results. Low surrogate recovery was observed for n-triacontane in 2-SOIL-01 (lab # 444717-001). No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

2-SOIL-01 (lab # 444717-001) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

Pesticides (EPA 8081A):

Low recovery was observed for endrin in the MSD for batch 266559; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for endrin in the MS/MSD for batch 266559; this analyte was not detected at or above the RL in the associated samples. 2A-SOIL-01 (lab # 444717-002) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1-SOIL 01 (lab # 444715-001); the LCS was within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
 Vista Environmental
 2984 Teagarden Street
 San Leandro, CA 94577

Lab Job #: 444717
 Project No: 211283001
 Location: City of Seaside - Former Fort Ord
 Date Received: 04/30/21

Sample ID: 2-SOIL-01

Lab ID: 444717-001

Collected: 04/29/21 13:30

Matrix: Soil

444717-001 Analyte

	Result	Qual	Units	RL	MDL
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Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic	1.5		mg/Kg	0.98	0.66
Barium	29		mg/Kg	0.98	
Chromium	13		mg/Kg	0.98	
Cobalt	1.9		mg/Kg	0.49	
Copper	18		mg/Kg	0.98	
Lead	24		mg/Kg	0.98	
Nickel	9.8		mg/Kg	0.98	
Vanadium	12		mg/Kg	0.98	
Zinc	59		mg/Kg	4.9	

Method: EPA 7471A

Prep Method: METHOD

Mercury	0.16		mg/Kg	0.15	
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Method: EPA 8081A

Prep Method: EPA 3546

Dieldrin	6.3		ug/Kg	5.0	
4,4'-DDE	24		ug/Kg	5.0	
4,4'-DDT	39		ug/Kg	5.0	

Method: EPA 8260B

Prep Method: EPA 5035

Acetone	1,100		ug/Kg	260	
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Detection Summary

Sample ID: 2A-SOIL-01	Lab ID: 444717-002	Collected: 04/29/21 13:30
	Matrix: Soil	

444717-002 Analyte		Result	Qual	Units	RL	MDL
Method: EPA 6010B						
Prep Method: EPA 3050B						
	Arsenic	2.1		mg/Kg	1.1	0.71
	Barium	54		mg/Kg	1.1	
	Chromium	2.4		mg/Kg	1.1	
	Cobalt	140		mg/Kg	0.53	
	Copper	40		mg/Kg	1.1	
	Lead	2.9		mg/Kg	1.1	
	Nickel	6.8		mg/Kg	1.1	
	Vanadium	5.4		mg/Kg	1.1	
	Zinc	30		mg/Kg	5.3	
Method: EPA 7196A						
Prep Method: EPA 3060A						
	Hexavalent Chromium	5.1		mg/Kg	0.80	0.26
Method: EPA 8015M						
Prep Method: EPA 3580						
	DRO C10-C28 (SGCU)	24		mg/Kg	10	
	ORO C28-C44 (SGCU)	26		mg/Kg	20	
Method: EPA 8082						
Prep Method: EPA 3546						
	Aroclor-1260	220		ug/Kg	20	

SGCU Silica gel cleanup

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 444717
Date Received: 4/30/21

Client: Vista
Project: _____


Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/30/21 By (print) mtg (sign) [signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☒ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☒ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☒ C

Cooler Temp (°C): #1: 3.7, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?	☒		
If YES, what time were they transferred to freezer? <u>4/30/21 1330</u>			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?			☒
Was the client contacted concerning this sample delivery?		☒	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (If N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
☐ H2SO4 lot# _____ added to samples _____ on/at _____			
☐ HCL lot# _____ added to samples _____ on/at _____			
☐ HNO3 lot# _____ added to samples _____ on/at _____			
☐ NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: Sample labels do not include date/time.

Date Logged in 4/30/21 By (print) mtg for 214 (sign) [signature]
Date Labeled 4/30/21 By (print) mtg (sign) [signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista EnvironmentalProject: City of Seaside - Former Fort OrdDate Received: 5/4/21Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)Sample Temp (°C)
(No Cooler) : _____Sample Temp (°C), One from each cooler: #1: 4.0 #2: _____ #3: _____ #4: _____*(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)*Shipping Information: GLS

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____Cooler Temp (°C): #1: 0.8 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: [Signature] Date: 5/4/21

Enthalpy Analytical, a subsidiary of Montrose Environmental Group, Inc.
931 W. Barkley Ave, Orange, CA 92868 • T: (714) 771-6900 • F: (714) 538-1209
www.enthalpy.com/socal

Sample Acceptance Checklist – Rev 4, 8/8/2017



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553178430

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S92868A



41313812

ORC CA927-CI1

Print Date: 5/3/2021 3:03 PM

Package 1 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

0-8 / 4-0

Gasoline by GC/FID (5035 Prep)

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Basis: as received	Prepared: 05/06/21
Type: SAMPLE	Batch#: 266614	Prep: EPA 5030B
Lab ID: 444717-001	Sampled: 04/29/21	Analysis: EPA 8015B
Matrix: Soil	Received: 04/30/21	Analyst: EMW

Analyte	Result	RL	Units	Diln Fac	Analyzed
TPH Gasoline	ND	12	mg/Kg	3.850	05/06/21
Surrogate		%REC	Limits	Diln Fac	Analyzed
Bromofluorobenzene (FID)		61	60-140	1.000	05/07/21

Field ID: 2A-SOIL-01	Basis: as received			Prepared: 05/06/21	
Type: SAMPLE	Batch#: 266614			Prep: EPA 5030B	
Lab ID: 444717-002	Sampled: 04/29/21			Analysis: EPA 8015B	
Matrix: Soil	Received: 04/30/21			Analyst: EMW	
Analyte	Result	RL	Units	Diln Fac	Analyzed
TPH Gasoline	ND	2.4	mg/Kg	0.8100	05/07/21
Surrogate		%REC	Limits	Diln Fac	Analyzed
Bromofluorobenzene (FID)		105	60-140	1.000	05/07/21

Type: BLANK	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923520	Prepared: 05/06/21	Analyst: EMW
Matrix: Soil	Analyzed: 05/06/21	
Diln Fac: 1.000	Prep: EPA 5030B	

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Legend
ND: Not Detected
RL: Reporting Limit

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444717		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923517		Batch#: 266614		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/06/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.418	108	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			135	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923518	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	3.437	69 *	70-130	mg/Kg
Surrogate				%REC	Limits	
Bromofluorobenzene (FID)				105	60-140	

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923519	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	3.537	71	70-130	mg/Kg	3	20
Surrogate				%REC	Limits		
Bromofluorobenzene (FID)				110	60-140		

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Extractable Carbon Chain

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2-SOIL-01

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444717-001

Sampled: 04/29/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	62 *	70-130	

Field ID: 2A-SOIL-01

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444717-002

Sampled: 04/29/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	24	10	mg/Kg
ORO C28-C44 (SGCU)	26	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	93	70-130	

Type: BLANK

Batch#: 266535

Cleanup Method: EPA 3630C

Lab ID: QC923298

Prepared: 05/05/21

Analysis: EPA 8015M

Matrix: Soil

Analyzed: 05/05/21

Analyst: MES

Diln Fac: 1.000

Prep: EPA 3580

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	94	70-130	

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

ND: Not Detected

RL: Reporting Limit

Extractable Carbon Chain: Batch QC

Lab #: 444717		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923299	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	247.5	156.0	63 *	76-122	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	87	70-130

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

Extractable Carbon Chain: Batch QC

Lab #: 444717		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MS	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923300	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	3.186	250.0	182.1	72	62-126	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MSD	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923301	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Diesel C10-C28 (SGCU)	250.0	184.3	72	62-126	mg/Kg	1	35

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Legend

(SGCU): Silica gel cleanup

RPD: Relative Percent Difference

Purgeable Organics by GC/MS

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Diln Fac: 2.632	Analyzed: 05/06/21
Lab ID: 444717-001	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	13	ug/Kg
Chloromethane	ND	13	ug/Kg
Vinyl Chloride	ND	13	ug/Kg
Bromomethane	ND	13	ug/Kg
Chloroethane	ND	13	ug/Kg
Trichlorofluoromethane	ND	13	ug/Kg
Acetone	1,100	260	ug/Kg
Freon 113	ND	13	ug/Kg
1,1-Dichloroethene	ND	13	ug/Kg
Methylene Chloride	ND	13	ug/Kg
MTBE	ND	13	ug/Kg
trans-1,2-Dichloroethene	ND	13	ug/Kg
1,1-Dichloroethane	ND	13	ug/Kg
2-Butanone	ND	260	ug/Kg
cis-1,2-Dichloroethene	ND	13	ug/Kg
2,2-Dichloropropane	ND	13	ug/Kg
Chloroform	ND	13	ug/Kg
Bromochloromethane	ND	13	ug/Kg
1,1,1-Trichloroethane	ND	13	ug/Kg
1,1-Dichloropropene	ND	13	ug/Kg
Carbon Tetrachloride	ND	13	ug/Kg
1,2-Dichloroethane	ND	13	ug/Kg
Benzene	ND	13	ug/Kg
Trichloroethene	ND	13	ug/Kg
1,2-Dichloropropane	ND	13	ug/Kg
Bromodichloromethane	ND	13	ug/Kg
Dibromomethane	ND	13	ug/Kg
4-Methyl-2-Pentanone	ND	13	ug/Kg
cis-1,3-Dichloropropene	ND	13	ug/Kg
Toluene	ND	13	ug/Kg
trans-1,3-Dichloropropene	ND	13	ug/Kg
1,1,2-Trichloroethane	ND	13	ug/Kg
1,3-Dichloropropane	ND	13	ug/Kg
Tetrachloroethene	ND	13	ug/Kg
Dibromochloromethane	ND	13	ug/Kg
1,2-Dibromoethane	ND	13	ug/Kg
Chlorobenzene	ND	13	ug/Kg
1,1,1,2-Tetrachloroethane	ND	13	ug/Kg
Ethylbenzene	ND	13	ug/Kg
m,p-Xylenes	ND	26	ug/Kg
o-Xylene	ND	13	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	13	ug/Kg
Bromoform	ND	13	ug/Kg
Isopropylbenzene	ND	13	ug/Kg
1,1,2,2-Tetrachloroethane	ND	13	ug/Kg
1,2,3-Trichloropropane	ND	13	ug/Kg
Propylbenzene	ND	13	ug/Kg
Bromobenzene	ND	13	ug/Kg
1,3,5-Trimethylbenzene	ND	13	ug/Kg
2-Chlorotoluene	ND	13	ug/Kg
4-Chlorotoluene	ND	13	ug/Kg
tert-Butylbenzene	ND	13	ug/Kg
1,2,4-Trimethylbenzene	ND	13	ug/Kg
sec-Butylbenzene	ND	13	ug/Kg
para-Isopropyl Toluene	ND	13	ug/Kg
1,3-Dichlorobenzene	ND	13	ug/Kg
1,4-Dichlorobenzene	ND	13	ug/Kg
n-Butylbenzene	ND	13	ug/Kg
1,2-Dichlorobenzene	ND	13	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	13	ug/Kg
1,2,4-Trichlorobenzene	ND	13	ug/Kg
Hexachlorobutadiene	ND	13	ug/Kg
Naphthalene	ND	13	ug/Kg
1,2,3-Trichlorobenzene	ND	13	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	91	70-145	
1,2-Dichloroethane-d4	100	70-145	
Toluene-d8	110	70-145	
Bromofluorobenzene	102	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2A-SOIL-01	Diln Fac: 0.9434	Analyzed: 05/06/21
Lab ID: 444717-002	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	4.7	ug/Kg
Chloromethane	ND	4.7	ug/Kg
Vinyl Chloride	ND	4.7	ug/Kg
Bromomethane	ND	4.7	ug/Kg
Chloroethane	ND	4.7	ug/Kg
Trichlorofluoromethane	ND	4.7	ug/Kg
Acetone	ND	94	ug/Kg
Freon 113	ND	4.7	ug/Kg
1,1-Dichloroethene	ND	4.7	ug/Kg
Methylene Chloride	ND	4.7	ug/Kg
MTBE	ND	4.7	ug/Kg
trans-1,2-Dichloroethene	ND	4.7	ug/Kg
1,1-Dichloroethane	ND	4.7	ug/Kg
2-Butanone	ND	94	ug/Kg
cis-1,2-Dichloroethene	ND	4.7	ug/Kg
2,2-Dichloropropane	ND	4.7	ug/Kg
Chloroform	ND	4.7	ug/Kg
Bromochloromethane	ND	4.7	ug/Kg
1,1,1-Trichloroethane	ND	4.7	ug/Kg
1,1-Dichloropropene	ND	4.7	ug/Kg
Carbon Tetrachloride	ND	4.7	ug/Kg
1,2-Dichloroethane	ND	4.7	ug/Kg
Benzene	ND	4.7	ug/Kg
Trichloroethene	ND	4.7	ug/Kg
1,2-Dichloropropane	ND	4.7	ug/Kg
Bromodichloromethane	ND	4.7	ug/Kg
Dibromomethane	ND	4.7	ug/Kg
4-Methyl-2-Pentanone	ND	4.7	ug/Kg
cis-1,3-Dichloropropene	ND	4.7	ug/Kg
Toluene	ND	4.7	ug/Kg
trans-1,3-Dichloropropene	ND	4.7	ug/Kg
1,1,2-Trichloroethane	ND	4.7	ug/Kg
1,3-Dichloropropane	ND	4.7	ug/Kg
Tetrachloroethene	ND	4.7	ug/Kg
Dibromochloromethane	ND	4.7	ug/Kg
1,2-Dibromoethane	ND	4.7	ug/Kg
Chlorobenzene	ND	4.7	ug/Kg
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg
Ethylbenzene	ND	4.7	ug/Kg
m,p-Xylenes	ND	9.4	ug/Kg
o-Xylene	ND	4.7	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	4.7	ug/Kg
Bromoform	ND	4.7	ug/Kg
Isopropylbenzene	ND	4.7	ug/Kg
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg
1,2,3-Trichloropropane	ND	4.7	ug/Kg
Propylbenzene	ND	4.7	ug/Kg
Bromobenzene	ND	4.7	ug/Kg
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg
2-Chlorotoluene	ND	4.7	ug/Kg
4-Chlorotoluene	ND	4.7	ug/Kg
tert-Butylbenzene	ND	4.7	ug/Kg
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg
sec-Butylbenzene	ND	4.7	ug/Kg
para-Isopropyl Toluene	ND	4.7	ug/Kg
1,3-Dichlorobenzene	ND	4.7	ug/Kg
1,4-Dichlorobenzene	ND	4.7	ug/Kg
n-Butylbenzene	ND	4.7	ug/Kg
1,2-Dichlorobenzene	ND	4.7	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	4.7	ug/Kg
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg
Hexachlorobutadiene	ND	4.7	ug/Kg
Naphthalene	ND	4.7	ug/Kg
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	96	70-145	
1,2-Dichloroethane-d4	108	70-145	
Toluene-d8	102	70-145	
Bromofluorobenzene	97	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Diln Fac: 1.000	Prep: EPA 5035
Lab ID: QC923448	Batch#: 266584	Analysis: EPA 8260B
Matrix: Soil	Analyzed: 05/05/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	5.0	ug/Kg
Chloromethane	ND	5.0	ug/Kg
Vinyl Chloride	ND	5.0	ug/Kg
Bromomethane	ND	5.0	ug/Kg
Chloroethane	ND	5.0	ug/Kg
Trichlorofluoromethane	ND	5.0	ug/Kg
Acetone	ND	100	ug/Kg
Freon 113	ND	5.0	ug/Kg
1,1-Dichloroethene	ND	5.0	ug/Kg
Methylene Chloride	ND	5.0	ug/Kg
MTBE	ND	5.0	ug/Kg
trans-1,2-Dichloroethene	ND	5.0	ug/Kg
1,1-Dichloroethane	ND	5.0	ug/Kg
2-Butanone	ND	100	ug/Kg
cis-1,2-Dichloroethene	ND	5.0	ug/Kg
2,2-Dichloropropane	ND	5.0	ug/Kg
Chloroform	ND	5.0	ug/Kg
Bromochloromethane	ND	5.0	ug/Kg
1,1,1-Trichloroethane	ND	5.0	ug/Kg
1,1-Dichloropropene	ND	5.0	ug/Kg
Carbon Tetrachloride	ND	5.0	ug/Kg
1,2-Dichloroethane	ND	5.0	ug/Kg
Benzene	ND	5.0	ug/Kg
Trichloroethene	ND	5.0	ug/Kg
1,2-Dichloropropane	ND	5.0	ug/Kg
Bromodichloromethane	ND	5.0	ug/Kg
Dibromomethane	ND	5.0	ug/Kg
4-Methyl-2-Pentanone	ND	5.0	ug/Kg
cis-1,3-Dichloropropene	ND	5.0	ug/Kg
Toluene	ND	5.0	ug/Kg
trans-1,3-Dichloropropene	ND	5.0	ug/Kg
1,1,2-Trichloroethane	ND	5.0	ug/Kg
1,3-Dichloropropane	ND	5.0	ug/Kg
Tetrachloroethene	ND	5.0	ug/Kg
Dibromochloromethane	ND	5.0	ug/Kg
1,2-Dibromoethane	ND	5.0	ug/Kg
Chlorobenzene	ND	5.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg
Ethylbenzene	ND	5.0	ug/Kg
m,p-Xylenes	ND	10	ug/Kg
o-Xylene	ND	5.0	ug/Kg
Styrene	ND	5.0	ug/Kg

Purgeable Organics by GC/MS: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Bromoform	ND	5.0	ug/Kg
Isopropylbenzene	ND	5.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg
1,2,3-Trichloropropane	ND	5.0	ug/Kg
Propylbenzene	ND	5.0	ug/Kg
Bromobenzene	ND	5.0	ug/Kg
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg
2-Chlorotoluene	ND	5.0	ug/Kg
4-Chlorotoluene	ND	5.0	ug/Kg
tert-Butylbenzene	ND	5.0	ug/Kg
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg
sec-Butylbenzene	ND	5.0	ug/Kg
para-Isopropyl Toluene	ND	5.0	ug/Kg
1,3-Dichlorobenzene	ND	5.0	ug/Kg
1,4-Dichlorobenzene	ND	5.0	ug/Kg
n-Butylbenzene	ND	5.0	ug/Kg
1,2-Dichlorobenzene	ND	5.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg
Hexachlorobutadiene	ND	5.0	ug/Kg
Naphthalene	ND	5.0	ug/Kg
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	98	70-130	
1,2-Dichloroethane-d4	107	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BS

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923449

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units
1,1-Dichloroethene	50.00	51.26	103	70-131	ug/Kg
MTBE	50.00	48.03	96	69-130	ug/Kg
Benzene	50.00	49.31	99	70-130	ug/Kg
Trichloroethene	50.00	49.52	99	70-130	ug/Kg
Toluene	50.00	50.96	102	70-130	ug/Kg
Chlorobenzene	50.00	50.41	101	70-130	ug/Kg

Surrogate	%REC	Limits
Dibromofluoromethane	94	70-130
1,2-Dichloroethane-d4	94	70-145
Toluene-d8	105	70-145
Bromofluorobenzene	103	70-145

Type: BSD

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923450

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
1,1-Dichloroethene	50.00	53.82	108	70-131	ug/Kg	5	33
MTBE	50.00	51.69	103	69-130	ug/Kg	7	30
Benzene	50.00	52.61	105	70-130	ug/Kg	6	30
Trichloroethene	50.00	50.41	101	70-130	ug/Kg	2	30
Toluene	50.00	51.84	104	70-130	ug/Kg	2	30
Chlorobenzene	50.00	51.66	103	70-130	ug/Kg	2	30

Surrogate	%REC	Limits
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	99	70-145
Toluene-d8	102	70-145
Bromofluorobenzene	101	70-145

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Batch#: 266537	Prep: EPA 3546
Lab ID: 444717-001	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 2.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
Carbazole	ND	500	ug/Kg
1-Methylnaphthalene	ND	500	ug/Kg
Pyridine	ND	500	ug/Kg
N-Nitrosodimethylamine	ND	500	ug/Kg
Phenol	ND	500	ug/Kg
Aniline	ND	500	ug/Kg
bis(2-Chloroethyl)ether	ND	2,400	ug/Kg
2-Chlorophenol	ND	500	ug/Kg
1,3-Dichlorobenzene	ND	500	ug/Kg
1,4-Dichlorobenzene	ND	500	ug/Kg
Benzyl alcohol	ND	500	ug/Kg
1,2-Dichlorobenzene	ND	500	ug/Kg
2-Methylphenol	ND	500	ug/Kg
bis(2-Chloroisopropyl) ether	ND	500	ug/Kg
3-,4-Methylphenol	ND	800	ug/Kg
N-Nitroso-di-n-propylamine	ND	500	ug/Kg
Hexachloroethane	ND	500	ug/Kg
Nitrobenzene	ND	2,400	ug/Kg
Isophorone	ND	500	ug/Kg
2-Nitrophenol	ND	500	ug/Kg
2,4-Dimethylphenol	ND	500	ug/Kg
Benzoic acid	ND	2,400	ug/Kg
bis(2-Chloroethoxy)methane	ND	500	ug/Kg
2,4-Dichlorophenol	ND	500	ug/Kg
1,2,4-Trichlorobenzene	ND	500	ug/Kg
Naphthalene	ND	500	ug/Kg
4-Chloroaniline	ND	500	ug/Kg
Hexachlorobutadiene	ND	500	ug/Kg
4-Chloro-3-methylphenol	ND	500	ug/Kg
2-Methylnaphthalene	ND	500	ug/Kg
Hexachlorocyclopentadiene	ND	2,400	ug/Kg
2,4,6-Trichlorophenol	ND	500	ug/Kg
2,4,5-Trichlorophenol	ND	500	ug/Kg
2-Chloronaphthalene	ND	500	ug/Kg
2-Nitroaniline	ND	500	ug/Kg
Dimethylphthalate	ND	500	ug/Kg
Acenaphthylene	ND	500	ug/Kg
2,6-Dinitrotoluene	ND	500	ug/Kg
3-Nitroaniline	ND	500	ug/Kg
Acenaphthene	ND	500	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	2,400	ug/Kg
4-Nitrophenol	ND	500	ug/Kg
Dibenzofuran	ND	500	ug/Kg
2,4-Dinitrotoluene	ND	500	ug/Kg
Diethylphthalate	ND	500	ug/Kg
Fluorene	ND	500	ug/Kg
4-Chlorophenyl-phenylether	ND	500	ug/Kg
4-Nitroaniline	ND	500	ug/Kg
4,6-Dinitro-2-methylphenol	ND	500	ug/Kg
N-Nitrosodiphenylamine	ND	500	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	500	ug/Kg
4-Bromophenyl-phenylether	ND	500	ug/Kg
Hexachlorobenzene	ND	500	ug/Kg
Pentachlorophenol	ND	2,400	ug/Kg
Phenanthrene	ND	500	ug/Kg
Anthracene	ND	500	ug/Kg
Di-n-butylphthalate	ND	500	ug/Kg
Fluoranthene	ND	500	ug/Kg
Benzidine	ND	2,400	ug/Kg
Pyrene	ND	500	ug/Kg
Butylbenzylphthalate	ND	500	ug/Kg
3,3'-Dichlorobenzidine	ND	2,400	ug/Kg
Benzo(a)anthracene	ND	500	ug/Kg
Chrysene	ND	500	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	500	ug/Kg
Di-n-octylphthalate	ND	500	ug/Kg
Benzo(b)fluoranthene	ND	500	ug/Kg
Benzo(k)fluoranthene	ND	500	ug/Kg
Benzo(a)pyrene	ND	500	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	500	ug/Kg
Dibenz(a,h)anthracene	ND	500	ug/Kg
Benzo(g,h,i)perylene	ND	500	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	56	29-120
Phenol-d6	54	30-120
2,4,6-Tribromophenol	48	32-120
Nitrobenzene-d5	48	33-120
2-Fluorobiphenyl	45	39-120
Terphenyl-d14	52	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2A-SOIL-01	Batch#: 266537	Prep: EPA 3546
Lab ID: 444717-002	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/07/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	55	29-120
Phenol-d6	53	30-120
2,4,6-Tribromophenol	48	32-120
Nitrobenzene-d5	44	33-120
2-Fluorobiphenyl	47	39-120
Terphenyl-d14	47	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266537

Analysis: EPA 8270C

Lab ID: QC923305

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg
Surrogate	%REC	Limits	
2-Fluorophenol	56	29-120	
Phenol-d6	55	30-120	
2,4,6-Tribromophenol	47	32-120	
Nitrobenzene-d5	50	33-120	
2-Fluorobiphenyl	49	39-120	
Terphenyl-d14	71	44-125	

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266537	Analysis: EPA 8270C
Lab ID: QC923306	Prepared: 05/05/21	Analyst: DJL
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,299	65	42-120	ug/Kg
2-Chlorophenol	2,000	1,302	65	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,260	63	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,393	70	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,229	61	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,278	64	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,296	65	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,402	70	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,332	67	40-124	ug/Kg
Acenaphthene	2,000	1,232	62	35-126	ug/Kg
4-Nitrophenol	2,000	1,200	60	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,299	65	40-131	ug/Kg
Pentachlorophenol	2,000	1,038	52	35-120	ug/Kg
Pyrene	2,000	1,263	63	37-135	ug/Kg
Chrysene	2,000	1,306	65	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,401	70	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			67	29-120	
Phenol-d6			72	30-120	
2,4,6-Tribromophenol			64	32-120	
Nitrobenzene-d5			69	33-120	
2-Fluorobiphenyl			65	39-120	
Terphenyl-d14			66	44-125	

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 50.00	Analyzed: 05/05/21
MSS Lab ID: 444794-001	Batch#: 266537	Prep: EPA 3546
Lab ID: QC923307	Sampled: 05/03/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/03/21	Analyst: DJL

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Phenol	<8,500	2,000	374.3	DO	37-120	ug/Kg
2-Chlorophenol	<6,500	2,000	0	DO	33-120	ug/Kg
1,4-Dichlorobenzene	<7,600	2,000	411.2	DO	32-120	ug/Kg
3-,4-Methylphenol	<8,900	2,000	826.1	DO	37-120	ug/Kg
N-Nitroso-di-n-propylamine	<9,700	2,000	3,921	DO	32-120	ug/Kg
2,4-Dimethylphenol	<8,600	2,000	1,474	DO	32-120	ug/Kg
1,2,4-Trichlorobenzene	<6,600	2,000	1,019	DO	33-120	ug/Kg
4-Chloro-3-methylphenol	<5,400	2,000	1,367	DO	41-121	ug/Kg
2,4,5-Trichlorophenol	<6,200	2,000	0	DO	40-120	ug/Kg
Acenaphthene	<6,900	2,000	719.2	DO	37-120	ug/Kg
4-Nitrophenol	<10,000	2,000	16,080	DO	20-141	ug/Kg
2,4-Dinitrotoluene	<6,600	2,000	35,880	DO	33-128	ug/Kg
Pentachlorophenol	<14,200	2,000	0	DO	28-132	ug/Kg
Pyrene	<6,800	2,000	1,296	DO	39-135	ug/Kg
Chrysene	<5,800	2,000	952.8	DO	37-135	ug/Kg
Benzo(b)fluoranthene	<6,200	2,000	1,019	DO	34-139	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	DO	29-120
Phenol-d6	DO	30-120
2,4,6-Tribromophenol	DO	32-120
Nitrobenzene-d5	DO	33-120
2-Fluorobiphenyl	DO	39-120
Terphenyl-d14	DO	44-125

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 50.00	Analyzed: 05/05/21
MSS Lab ID: 444794-001	Batch#: 266537	Prep: EPA 3546
Lab ID: QC923308	Sampled: 05/03/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/03/21	Analyst: DJL

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Phenol	2,000	0	DO	37-120	ug/Kg	NC	49
2-Chlorophenol	2,000	0	DO	33-120	ug/Kg	NC	52
1,4-Dichlorobenzene	2,000	617.7	DO	32-120	ug/Kg	NC	50
3-,4-Methylphenol	2,000	1,280	DO	37-120	ug/Kg	NC	54
N-Nitroso-di-n-propylamine	2,000	1,474	DO	32-120	ug/Kg	NC	50
2,4-Dimethylphenol	2,000	1,528	DO	32-120	ug/Kg	NC	50
1,2,4-Trichlorobenzene	2,000	691.7	DO	33-120	ug/Kg	NC	50
4-Chloro-3-methylphenol	2,000	3,056	DO	41-121	ug/Kg	NC	43
2,4,5-Trichlorophenol	2,000	2,468	DO	40-120	ug/Kg	NC	47
Acenaphthene	2,000	1,164	DO	37-120	ug/Kg	NC	48
4-Nitrophenol	2,000	24,490	DO	20-141	ug/Kg	NC	30
2,4-Dinitrotoluene	2,000	1,859	DO	33-128	ug/Kg	NC	50
Pentachlorophenol	2,000	0	DO	28-132	ug/Kg	NC	30
Pyrene	2,000	1,379	DO	39-135	ug/Kg	NC	41
Chrysene	2,000	926.4	DO	37-135	ug/Kg	NC	46
Benzo(b)fluoranthene	2,000	1,032	DO	34-139	ug/Kg	NC	47

Surrogate	%REC	Limits
2-Fluorophenol	DO	29-120
Phenol-d6	DO	30-120
2,4,6-Tribromophenol	DO	32-120
Nitrobenzene-d5	DO	33-120
2-Fluorobiphenyl	DO	39-120
Terphenyl-d14	DO	44-125

Legend

DO: Diluted Out

NC: Not Calculated

RPD: Relative Percent Difference

Organochlorine Pesticides

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444717-001	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	6.3	5.0	ug/Kg
4,4'-DDE	24	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	39	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	56	23-120
Decachlorobiphenyl	52	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2A-SOIL-01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444717-002	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 2.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
alpha-BHC	ND	10	ug/Kg
beta-BHC	ND	10	ug/Kg
gamma-BHC	ND	10	ug/Kg
delta-BHC	ND	10	ug/Kg
Heptachlor	ND	10	ug/Kg
Aldrin	ND	10	ug/Kg
Heptachlor epoxide	ND	10	ug/Kg
Endosulfan I	ND	10	ug/Kg
Dieldrin	ND	10	ug/Kg
4,4'-DDE	ND	10	ug/Kg
Endrin	ND	10	ug/Kg
Endosulfan II	ND	10	ug/Kg
Endosulfan sulfate	ND	10	ug/Kg
4,4'-DDD	ND	10	ug/Kg
Endrin aldehyde	ND	10	ug/Kg
Endrin ketone	ND	10	ug/Kg
4,4'-DDT	ND	10	ug/Kg
Methoxychlor	ND	20	ug/Kg
Toxaphene	ND	200	ug/Kg
Chlordane (Technical)	ND	100	ug/Kg

Surrogate	%REC	Limits
TCMX	57	23-120
Decachlorobiphenyl	57	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	54	23-120
Decachlorobiphenyl	55	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266559

Analysis: EPA 8081A

Lab ID: QC923377

Prepared: 05/05/21

Analyst: KTD

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Spiked	Result	%REC	Limits	Units
alpha-BHC	50.00	31.96	64	22-129	ug/Kg
beta-BHC	50.00	32.55	65	28-125	ug/Kg
gamma-BHC	50.00	32.43	65	22-128	ug/Kg
delta-BHC	50.00	32.37	65	24-131	ug/Kg
Heptachlor	50.00	32.34	65	18-124	ug/Kg
Aldrin	50.00	29.48	59	23-120	ug/Kg
Heptachlor epoxide	50.00	29.50	59	26-120	ug/Kg
Endosulfan I	50.00	32.44	65	25-126	ug/Kg
Dieldrin	50.00	32.14	64	23-124	ug/Kg
4,4'-DDE	50.00	31.77	64	28-121	ug/Kg
Endrin	50.00	32.89	66	25-127	ug/Kg
Endosulfan II	50.00	32.45	65	29-121	ug/Kg
Endosulfan sulfate	50.00	31.51	63	30-121	ug/Kg
4,4'-DDD	50.00	29.20	58	26-120	ug/Kg
Endrin aldehyde	50.00	21.32	43	10-120	ug/Kg
Endrin ketone	50.00	30.33	61	28-125	ug/Kg
4,4'-DDT	50.00	33.70	67	22-125	ug/Kg
Methoxychlor	50.00	34.76	70	28-130	ug/Kg
Surrogate			%REC	Limits	
TCMX			60	23-120	
Decachlorobiphenyl			61	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923378	Sampled: 04/22/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
alpha-BHC	<1.600	50.00	29.92	60	46-120	ug/Kg
beta-BHC	<1.500	50.00	29.08	58	41-120	ug/Kg
gamma-BHC	<2.000	50.00	30.42	61	41-120	ug/Kg
delta-BHC	<1.200	50.00	32.31	65	38-123	ug/Kg
Heptachlor	<1.300	50.00	26.32	53	39-120	ug/Kg
Aldrin	<1.500	50.00	28.21	56	34-120	ug/Kg
Heptachlor epoxide	<2.300	50.00	26.58	53	43-120	ug/Kg
Endosulfan I	<1.200	50.00	28.35	57	45-120	ug/Kg
Dieldrin	<2.100	50.00	28.19	56	45-120	ug/Kg
4,4'-DDE	5.593	50.00	28.74	46	34-120	ug/Kg
Endrin	<2.700	50.00	25.25	51	40-120	ug/Kg
Endosulfan II	<2.800	50.00	28.60	57	41-120	ug/Kg
Endosulfan sulfate	<3.400	50.00	28.02	56	42-120	ug/Kg
4,4'-DDD	<2.100	50.00	25.88	52	41-120	ug/Kg
Endrin aldehyde	<2.100	50.00	21.81	44	30-120	ug/Kg
Endrin ketone	<4.100	50.00	30.40	61	45-120	ug/Kg
4,4'-DDT	<2.000	50.00	30.72	61	35-127	ug/Kg
Methoxychlor	<9.200	50.00	31.27	63	42-136	ug/Kg

Surrogate	%REC	Limits
TCMX	52	23-120
Decachlorobiphenyl	52	24-120

Organochlorine Pesticides: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: <u>ZZZZZZZZZZ</u>	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923379	Sampled: 04/22/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
alpha-BHC	50.00	26.03	52	46-120	ug/Kg	14	30
beta-BHC	50.00	26.06	52	41-120	ug/Kg	11	30
gamma-BHC	50.00	27.07	54	41-120	ug/Kg	12	30
delta-BHC	50.00	28.63	57	38-123	ug/Kg	12	30
Heptachlor	50.00	23.65	47	39-120	ug/Kg	11	30
Aldrin	50.00	25.07	50	34-120	ug/Kg	12	30
Heptachlor epoxide	50.00	23.95	48	43-120	ug/Kg	10	30
Endosulfan I	50.00	25.82	52	45-120	ug/Kg	9	30
Dieldrin	50.00	24.26	49	45-120	ug/Kg	15	30
4,4'-DDE	50.00	26.17	41	34-120	ug/Kg	9	30
Endrin	50.00	18.27	37 *	40-120	ug/Kg	32 *	30
Endosulfan II	50.00	26.12	52	41-120	ug/Kg	9	30
Endosulfan sulfate	50.00	24.97	50	42-120	ug/Kg	11	30
4,4'-DDD	50.00	25.50	51	41-120	ug/Kg	1	30
Endrin aldehyde	50.00	20.61	41	30-120	ug/Kg	6	30
Endrin ketone	50.00	32.75	65	45-120	ug/Kg	7	30
4,4'-DDT	50.00	27.75	56	35-127	ug/Kg	10	30
Methoxychlor	50.00	28.64	57	42-136	ug/Kg	9	30

Surrogate	%REC	Limits
TCMX	48	23-120
Decachlorobiphenyl	48	24-120

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 2-SOIL-01	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444717-001	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		49	19-121

Field ID: 2A-SOIL-01	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444717-002	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	220	20	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		96	19-121

Polychlorinated Biphenyls (PCBs)

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8082
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	52	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444717		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Batch#: 266559		Analysis: EPA 8082	
Lab ID: QC923380		Prepared: 05/05/21		Analyst: KTD	
Matrix: Soil		Analyzed: 05/05/21			
Diln Fac: 1.000		Prep: EPA 3546			
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	500.0	336.9	67	14-150	ug/Kg
Aroclor-1260	500.0	339.4	68	10-150	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl (PCB)			59	19-121	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444717		Project#: 211283001					
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord					
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923381		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	
Aroclor-1016	<3.000	500.0	294.7	59	42-127	ug/Kg	
Aroclor-1260	20.38	500.0	310.9	58	38-130	ug/Kg	
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				59	19-121		
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MSD		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923382		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	500.0	310.5	62	42-127	ug/Kg	5	30
Aroclor-1260	500.0	329.9	62	38-130	ug/Kg	6	30
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				63	19-121		

Legend

RPD: Relative Percent Difference

California Title 22 Metals

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2-SOIL-01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444717-001

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.5	0.98	0.66	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	29	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	13	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	1.9	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	18	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	24	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	0.16	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	9.8	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	59	4.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2A-SOIL-01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444717-002

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	2.1	1.1	0.71	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	54	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.53		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.53		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	2.4	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	140	0.53		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	40	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	2.9	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	6.8	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.53		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	5.4	1.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	30	5.3		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923337

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923338

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.90	99	80-120	mg/Kg
Arsenic	100.0	99.43	99	80-120	mg/Kg
Barium	100.0	98.31	98	80-120	mg/Kg
Beryllium	100.0	94.99	95	80-120	mg/Kg
Cadmium	100.0	95.29	95	80-120	mg/Kg
Chromium	100.0	97.58	98	80-120	mg/Kg
Cobalt	100.0	102.3	102	80-120	mg/Kg
Copper	100.0	95.65	96	80-120	mg/Kg
Lead	100.0	103.7	104	80-120	mg/Kg
Molybdenum	100.0	98.87	99	80-120	mg/Kg
Nickel	100.0	100.8	101	80-120	mg/Kg
Selenium	100.0	86.06	86	80-120	mg/Kg
Silver	50.00	45.81	92	80-120	mg/Kg
Thallium	100.0	99.43	99	80-120	mg/Kg
Vanadium	100.0	101.2	101	80-120	mg/Kg
Zinc	100.0	103.7	104	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923339	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.553	93.46	43.83	47 *	75-125	mg/Kg
Arsenic	2.768	93.46	93.68	97	75-125	mg/Kg
Barium	149.6	93.46	202.2	56 *	75-125	mg/Kg
Beryllium	0.08619	93.46	85.73	92	75-125	mg/Kg
Cadmium	0.4662	93.46	87.59	93	75-125	mg/Kg
Chromium	33.01	93.46	117.3	90	75-125	mg/Kg
Cobalt	4.170	93.46	96.33	99	75-125	mg/Kg
Copper	14.80	93.46	111.0	103	75-125	mg/Kg
Lead	181.3	93.46	210.4	31 *	75-125	mg/Kg
Molybdenum	<0.5728	93.46	87.06	93	75-125	mg/Kg
Nickel	15.37	93.46	103.0	94	75-125	mg/Kg
Selenium	<1.748	93.46	80.28	86	75-125	mg/Kg
Silver	<0.1553	46.73	41.48	89	75-125	mg/Kg
Thallium	<1.068	93.46	88.50	95	75-125	mg/Kg
Vanadium	17.27	93.46	109.5	99	75-125	mg/Kg
Zinc	194.9	93.46	256.6	66 *	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923340	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	46.31	47 *	75-125	mg/Kg	1	41
Arsenic	98.04	101.7	101	75-125	mg/Kg	4	35
Barium	98.04	213.7	65 *	75-125	mg/Kg	4	20
Beryllium	98.04	90.62	92	75-125	mg/Kg	1	20
Cadmium	98.04	95.42	97	75-125	mg/Kg	4	20
Chromium	98.04	126.2	95	75-125	mg/Kg	4	20
Cobalt	98.04	99.09	97	75-125	mg/Kg	2	20
Copper	98.04	108.9	96	75-125	mg/Kg	6	20
Lead	98.04	256.1	76	75-125	mg/Kg	18	20
Molybdenum	98.04	93.64	96	75-125	mg/Kg	2	20
Nickel	98.04	108.9	95	75-125	mg/Kg	1	20
Selenium	98.04	87.23	89	75-125	mg/Kg	4	20
Silver	49.02	44.97	92	75-125	mg/Kg	3	20
Thallium	98.04	95.20	97	75-125	mg/Kg	3	20
Vanadium	98.04	114.9	100	75-125	mg/Kg	1	20
Zinc	98.04	276.1	83	75-125	mg/Kg	6	20

California Title 22 Metals: Batch QC**Lab #:** 444717**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC**Lab #:** 444717**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** BLANK**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923394**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 444717**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923395**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8069	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444717		Project#: 211283001					
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord					
Field ID: 1-SOIL 01		Basis: as received		Prepared: 05/05/21			
Type: MS		Diln Fac: 1.000		Analyzed: 05/06/21			
MSS Lab ID: 444715-001		Batch#: 266563		Prep: METHOD			
Lab ID: QC923396		Sampled: 04/29/21		Analysis: EPA 7471A			
Matrix: Soil		Received: 04/30/21		Analyst: JDB			
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	
Mercury	0.2059	0.9615	1.097	93	75-125	mg/Kg	
Field ID: 1-SOIL 01		Basis: as received		Prepared: 05/05/21			
Type: MSD		Diln Fac: 1.000		Analyzed: 05/06/21			
MSS Lab ID: 444715-001		Batch#: 266563		Prep: METHOD			
Lab ID: QC923397		Sampled: 04/29/21		Analysis: EPA 7471A			
Matrix: Soil		Received: 04/30/21		Analyst: JDB			
Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	1.000	1.166	96	75-125	mg/Kg	3	20
Legend							
RPD: Relative Percent Difference							

Hexavalent Chromium

Lab #: 444717

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2-SOIL-01

Diln Fac: 1.000

Analyzed: 05/11/21 16:14

Type: SAMPLE

Batch#: 266848

Prep: EPA 3060A

Lab ID: 444717-001

Sampled: 04/29/21 13:30

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Basis: as received

Prepared: 05/11/21 11:50

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 2A-SOIL-01

Diln Fac: 1.000

Analyzed: 05/11/21 16:14

Type: SAMPLE

Batch#: 266848

Prep: EPA 3060A

Lab ID: 444717-002

Sampled: 04/29/21 13:30

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Basis: as received

Prepared: 05/11/21 11:50

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	5.1	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 266848

Analysis: EPA 7196A

Lab ID: QC924217

Prepared: 05/11/21 11:50

Analyst: ATP

Matrix: Soil

Analyzed: 05/11/21 16:14

Diln Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 444717	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266848	Analysis: EPA 7196A
Lab ID: QC924218	Prepared: 05/11/21 11:50	Analyst: ATP
Matrix: Soil	Analyzed: 05/11/21 16:14	
Diln Fac: 5.000	Prep: EPA 3060A	

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.17	105	80-120	mg/Kg

Field ID: 5-SOIL 01	Basis: as received	Prepared: 05/11/21 11:50
Type: MS	Diln Fac: 5.000	Analyzed: 05/11/21 16:14
MSS Lab ID: 444721-001	Batch#: 266848	Prep: EPA 3060A
Lab ID: QC924219	Sampled: 04/29/21 08:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	35.59	89	75-125	mg/Kg

Field ID: 5-SOIL 01	Basis: as received	Prepared: 05/11/21 11:50
Type: MSD	Diln Fac: 5.000	Analyzed: 05/11/21 16:14
MSS Lab ID: 444721-001	Batch#: 266848	Prep: EPA 3060A
Lab ID: QC924220	Sampled: 04/29/21 08:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	36.27	91	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 444718
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	444718
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
3-SOIL-01	444718-001	04/28/21 13:30	Soil
3-SOIL-02	444718-002	04/29/21 12:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 444718
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/30/21. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Low recovery was observed for TPH gasoline in the MS for batch 266614; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015M):

Low recovery was observed for diesel C10-C28 in the LCS for batch 266535; the low recovery was not associated with any reported results. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

Low surrogate recovery was observed for 2-fluorobiphenyl in 3-SOIL-01 (lab # 444718-001). No other analytical problems were encountered.

Pesticides (EPA 8081A):

Low recovery was observed for endrin in the MSD for batch 266559; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for endrin in the MS/MSD for batch 266559; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1-SOIL 01 (lab # 444715-001); the LCS was within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 444718
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

Sample ID: 3-SOIL-01

Lab ID: 444718-001

Collected: 04/28/21 13:30

Matrix: Soil

444718-001 Analyte

Result

Qual

Units

RL

MDL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic	0.89	J	mg/Kg	1.0	0.69
Barium	21		mg/Kg	1.0	
Chromium	9.8		mg/Kg	1.0	
Cobalt	120		mg/Kg	0.52	
Copper	38		mg/Kg	1.0	
Lead	3.2		mg/Kg	1.0	
Nickel	13		mg/Kg	1.0	
Vanadium	13		mg/Kg	1.0	
Zinc	9.1		mg/Kg	5.2	

Method: EPA 8015M

Prep Method: EPA 3580

DRO C10-C28 (SGCU)	10		mg/Kg	9.9	
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Method: EPA 8081A

Prep Method: EPA 3546

Heptachlor epoxide	7.9		ug/Kg	5.0	
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Sample ID: 3-SOIL-02

Lab ID: 444718-002

Collected: 04/29/21 12:30

Matrix: Soil

444718-002 Analyte

Result

Qual

Units

RL

MDL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic	1.5		mg/Kg	1.0	0.70
Barium	30		mg/Kg	1.0	
Chromium	12		mg/Kg	1.0	
Cobalt	2.1		mg/Kg	0.52	
Copper	5.7		mg/Kg	1.0	
Lead	6.5		mg/Kg	1.0	
Nickel	13		mg/Kg	1.0	
Vanadium	12		mg/Kg	1.0	
Zinc	25		mg/Kg	5.2	

J Estimated value
SGCU Silica gel cleanup

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 444710 Client: Vista
 Date Received: 4/30/21 Project: _____



Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/30/21 By (print) mtg (sign) [signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☒ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☒ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____ or IR Gun # ☐ B ☒ C

Cooler Temp (°C): #1: 3.7, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?	☒		
If YES, what time were they transferred to freezer? <u>4/30/21 1330</u>			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?			☒
Was the client contacted concerning this sample delivery?		☒	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
☐ H2SO4 lot# _____ added to samples _____ on/at _____			
☐ HCL lot# _____ added to samples _____ on/at _____			
☐ HNO3 lot# _____ added to samples _____ on/at _____			
☐ NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: Sample labels do not include date/time.

Date Logged in 4/30/21 By (print) mtg (sign) [signature]
 Date Labeled 4/30/21 By (print) mtg (sign) [signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista Environmental

Project: City of Seaside - Former Fort Ord

Date Received: 5/4/21

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2)Sample Temp (°C)
(No Cooler):

Sample Temp (°C), One from each cooler: #1: 4.0 #2: #3: #4:

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: GLS

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other

Cooler Temp (°C): #1: 0.8 #2: #3: #4:

Section 4

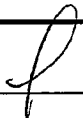
	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: Date/Time☐ Email (email sent to/on): /

Project Manager's response:

Completed By: 

Date: 5/4/21



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553178430

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

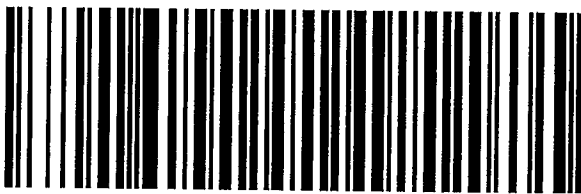
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S92868A



41313812

ORC CA927-CI1

Print Date: 5/3/2021 3:03 PM

Package 1 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

0-8 / 4-0

Gasoline by GC/FID (5035 Prep)

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-01	Batch#: 266614	Prep: EPA 5030B
Type: SAMPLE	Sampled: 04/28/21	Analysis: EPA 8015B
Lab ID: 444718-001	Received: 04/30/21	Analyst: EMW
Matrix: Soil	Prepared: 05/06/21	
Basis: as received	Analyzed: 05/07/21	

Analyte	Result	RL	Units	Diln Fac
TPH Gasoline	ND	7.1	mg/Kg	2.380
Surrogate		%REC	Limits	Diln Fac
Bromofluorobenzene (FID)		75	60-140	1.000

Field ID: 3-SOIL-02	Batch#: 266614	Prep: EPA 5030B
Type: SAMPLE	Sampled: 04/29/21	Analysis: EPA 8015B
Lab ID: 444718-002	Received: 04/30/21	Analyst: EMW
Matrix: Soil	Prepared: 05/06/21	
Basis: as received	Analyzed: 05/07/21	

Analyte	Result	RL	Units	Diln Fac
TPH Gasoline	ND	5.2	mg/Kg	1.720
Surrogate		%REC	Limits	Diln Fac
Bromofluorobenzene (FID)		61	60-140	1.000

Type: BLANK	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923520	Prepared: 05/06/21	Analyst: EMW
Matrix: Soil	Analyzed: 05/06/21	
Diln Fac: 1.000	Prep: EPA 5030B	

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Legend

ND: Not Detected

RL: Reporting Limit

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444718		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923517		Batch#: 266614		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/06/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.418	108	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			135	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923518	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	3.437	69 *	70-130	mg/Kg

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	60-140

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923519	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	3.537	71	70-130	mg/Kg	3	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	60-140

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Extractable Carbon Chain

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-01

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444718-001

Sampled: 04/28/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	10	9.9	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	86	70-130	

Field ID: 3-SOIL-02

Diln Fac: 1.000

Analyzed: 05/05/21

Type: SAMPLE

Batch#: 266535

Prep: EPA 3580

Lab ID: 444718-002

Sampled: 04/29/21

Cleanup Method: EPA 3630C

Matrix: Soil

Received: 04/30/21

Analysis: EPA 8015M

Basis: as received

Prepared: 05/05/21

Analyst: MES

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	93	70-130	

Type: BLANK

Batch#: 266535

Cleanup Method: EPA 3630C

Lab ID: QC923298

Prepared: 05/05/21

Analysis: EPA 8015M

Matrix: Soil

Analyzed: 05/05/21

Analyst: MES

Diln Fac: 1.000

Prep: EPA 3580

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	94	70-130	

Legend

(SGCU): Silica gel cleanup

ND: Not Detected

RL: Reporting Limit

Extractable Carbon Chain: Batch QC

Lab #: 444718		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923299	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	247.5	156.0	63 *	76-122	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	87	70-130

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

Extractable Carbon Chain: Batch QC

Lab #: 444718		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MS	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923300	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	3.186	250.0	182.1	72	62-126	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MSD	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923301	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Diesel C10-C28 (SGCU)	250.0	184.3	72	62-126	mg/Kg	1	35

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Legend

(SGCU): Silica gel cleanup

RPD: Relative Percent Difference

Purgeable Organics by GC/MS

Lab #: 444718		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-01	Diln Fac: 1.515	Analyzed: 05/06/21	
Lab ID: 444718-001	Batch#: 266584	Prep: EPA 5035	
Matrix: Soil	Sampled: 04/28/21	Analysis: EPA 8260B	
Basis: as received	Received: 04/30/21	Analyst: RAO	

Analyte	Result	RL	Units
Freon 12	ND	7.6	ug/Kg
Chloromethane	ND	7.6	ug/Kg
Vinyl Chloride	ND	7.6	ug/Kg
Bromomethane	ND	7.6	ug/Kg
Chloroethane	ND	7.6	ug/Kg
Trichlorofluoromethane	ND	7.6	ug/Kg
Acetone	ND	150	ug/Kg
Freon 113	ND	7.6	ug/Kg
1,1-Dichloroethene	ND	7.6	ug/Kg
Methylene Chloride	ND	7.6	ug/Kg
MTBE	ND	7.6	ug/Kg
trans-1,2-Dichloroethene	ND	7.6	ug/Kg
1,1-Dichloroethane	ND	7.6	ug/Kg
2-Butanone	ND	150	ug/Kg
cis-1,2-Dichloroethene	ND	7.6	ug/Kg
2,2-Dichloropropane	ND	7.6	ug/Kg
Chloroform	ND	7.6	ug/Kg
Bromochloromethane	ND	7.6	ug/Kg
1,1,1-Trichloroethane	ND	7.6	ug/Kg
1,1-Dichloropropene	ND	7.6	ug/Kg
Carbon Tetrachloride	ND	7.6	ug/Kg
1,2-Dichloroethane	ND	7.6	ug/Kg
Benzene	ND	7.6	ug/Kg
Trichloroethene	ND	7.6	ug/Kg
1,2-Dichloropropane	ND	7.6	ug/Kg
Bromodichloromethane	ND	7.6	ug/Kg
Dibromomethane	ND	7.6	ug/Kg
4-Methyl-2-Pentanone	ND	7.6	ug/Kg
cis-1,3-Dichloropropene	ND	7.6	ug/Kg
Toluene	ND	7.6	ug/Kg
trans-1,3-Dichloropropene	ND	7.6	ug/Kg
1,1,2-Trichloroethane	ND	7.6	ug/Kg
1,3-Dichloropropane	ND	7.6	ug/Kg
Tetrachloroethene	ND	7.6	ug/Kg
Dibromochloromethane	ND	7.6	ug/Kg
1,2-Dibromoethane	ND	7.6	ug/Kg
Chlorobenzene	ND	7.6	ug/Kg
1,1,1,2-Tetrachloroethane	ND	7.6	ug/Kg
Ethylbenzene	ND	7.6	ug/Kg
m,p-Xylenes	ND	15	ug/Kg
o-Xylene	ND	7.6	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	7.6	ug/Kg
Bromoform	ND	7.6	ug/Kg
Isopropylbenzene	ND	7.6	ug/Kg
1,1,2,2-Tetrachloroethane	ND	7.6	ug/Kg
1,2,3-Trichloropropane	ND	7.6	ug/Kg
Propylbenzene	ND	7.6	ug/Kg
Bromobenzene	ND	7.6	ug/Kg
1,3,5-Trimethylbenzene	ND	7.6	ug/Kg
2-Chlorotoluene	ND	7.6	ug/Kg
4-Chlorotoluene	ND	7.6	ug/Kg
tert-Butylbenzene	ND	7.6	ug/Kg
1,2,4-Trimethylbenzene	ND	7.6	ug/Kg
sec-Butylbenzene	ND	7.6	ug/Kg
para-Isopropyl Toluene	ND	7.6	ug/Kg
1,3-Dichlorobenzene	ND	7.6	ug/Kg
1,4-Dichlorobenzene	ND	7.6	ug/Kg
n-Butylbenzene	ND	7.6	ug/Kg
1,2-Dichlorobenzene	ND	7.6	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	7.6	ug/Kg
1,2,4-Trichlorobenzene	ND	7.6	ug/Kg
Hexachlorobutadiene	ND	7.6	ug/Kg
Naphthalene	ND	7.6	ug/Kg
1,2,3-Trichlorobenzene	ND	7.6	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	93	70-145	
1,2-Dichloroethane-d4	104	70-145	
Toluene-d8	102	70-145	
Bromofluorobenzene	98	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-02	Diln Fac: 1.190	Analyzed: 05/06/21
Lab ID: 444718-002	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	6.0	ug/Kg
Chloromethane	ND	6.0	ug/Kg
Vinyl Chloride	ND	6.0	ug/Kg
Bromomethane	ND	6.0	ug/Kg
Chloroethane	ND	6.0	ug/Kg
Trichlorofluoromethane	ND	6.0	ug/Kg
Acetone	ND	120	ug/Kg
Freon 113	ND	6.0	ug/Kg
1,1-Dichloroethene	ND	6.0	ug/Kg
Methylene Chloride	ND	6.0	ug/Kg
MTBE	ND	6.0	ug/Kg
trans-1,2-Dichloroethene	ND	6.0	ug/Kg
1,1-Dichloroethane	ND	6.0	ug/Kg
2-Butanone	ND	120	ug/Kg
cis-1,2-Dichloroethene	ND	6.0	ug/Kg
2,2-Dichloropropane	ND	6.0	ug/Kg
Chloroform	ND	6.0	ug/Kg
Bromochloromethane	ND	6.0	ug/Kg
1,1,1-Trichloroethane	ND	6.0	ug/Kg
1,1-Dichloropropene	ND	6.0	ug/Kg
Carbon Tetrachloride	ND	6.0	ug/Kg
1,2-Dichloroethane	ND	6.0	ug/Kg
Benzene	ND	6.0	ug/Kg
Trichloroethene	ND	6.0	ug/Kg
1,2-Dichloropropane	ND	6.0	ug/Kg
Bromodichloromethane	ND	6.0	ug/Kg
Dibromomethane	ND	6.0	ug/Kg
4-Methyl-2-Pentanone	ND	6.0	ug/Kg
cis-1,3-Dichloropropene	ND	6.0	ug/Kg
Toluene	ND	6.0	ug/Kg
trans-1,3-Dichloropropene	ND	6.0	ug/Kg
1,1,2-Trichloroethane	ND	6.0	ug/Kg
1,3-Dichloropropane	ND	6.0	ug/Kg
Tetrachloroethene	ND	6.0	ug/Kg
Dibromochloromethane	ND	6.0	ug/Kg
1,2-Dibromoethane	ND	6.0	ug/Kg
Chlorobenzene	ND	6.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	6.0	ug/Kg
Ethylbenzene	ND	6.0	ug/Kg
m,p-Xylenes	ND	12	ug/Kg
o-Xylene	ND	6.0	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	6.0	ug/Kg
Bromoform	ND	6.0	ug/Kg
Isopropylbenzene	ND	6.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	6.0	ug/Kg
1,2,3-Trichloropropane	ND	6.0	ug/Kg
Propylbenzene	ND	6.0	ug/Kg
Bromobenzene	ND	6.0	ug/Kg
1,3,5-Trimethylbenzene	ND	6.0	ug/Kg
2-Chlorotoluene	ND	6.0	ug/Kg
4-Chlorotoluene	ND	6.0	ug/Kg
tert-Butylbenzene	ND	6.0	ug/Kg
1,2,4-Trimethylbenzene	ND	6.0	ug/Kg
sec-Butylbenzene	ND	6.0	ug/Kg
para-Isopropyl Toluene	ND	6.0	ug/Kg
1,3-Dichlorobenzene	ND	6.0	ug/Kg
1,4-Dichlorobenzene	ND	6.0	ug/Kg
n-Butylbenzene	ND	6.0	ug/Kg
1,2-Dichlorobenzene	ND	6.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	6.0	ug/Kg
1,2,4-Trichlorobenzene	ND	6.0	ug/Kg
Hexachlorobutadiene	ND	6.0	ug/Kg
Naphthalene	ND	6.0	ug/Kg
1,2,3-Trichlorobenzene	ND	6.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	95	70-145	
1,2-Dichloroethane-d4	106	70-145	
Toluene-d8	101	70-145	
Bromofluorobenzene	98	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Diln Fac: 1.000	Prep: EPA 5035
Lab ID: QC923448	Batch#: 266584	Analysis: EPA 8260B
Matrix: Soil	Analyzed: 05/05/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	5.0	ug/Kg
Chloromethane	ND	5.0	ug/Kg
Vinyl Chloride	ND	5.0	ug/Kg
Bromomethane	ND	5.0	ug/Kg
Chloroethane	ND	5.0	ug/Kg
Trichlorofluoromethane	ND	5.0	ug/Kg
Acetone	ND	100	ug/Kg
Freon 113	ND	5.0	ug/Kg
1,1-Dichloroethene	ND	5.0	ug/Kg
Methylene Chloride	ND	5.0	ug/Kg
MTBE	ND	5.0	ug/Kg
trans-1,2-Dichloroethene	ND	5.0	ug/Kg
1,1-Dichloroethane	ND	5.0	ug/Kg
2-Butanone	ND	100	ug/Kg
cis-1,2-Dichloroethene	ND	5.0	ug/Kg
2,2-Dichloropropane	ND	5.0	ug/Kg
Chloroform	ND	5.0	ug/Kg
Bromochloromethane	ND	5.0	ug/Kg
1,1,1-Trichloroethane	ND	5.0	ug/Kg
1,1-Dichloropropene	ND	5.0	ug/Kg
Carbon Tetrachloride	ND	5.0	ug/Kg
1,2-Dichloroethane	ND	5.0	ug/Kg
Benzene	ND	5.0	ug/Kg
Trichloroethene	ND	5.0	ug/Kg
1,2-Dichloropropane	ND	5.0	ug/Kg
Bromodichloromethane	ND	5.0	ug/Kg
Dibromomethane	ND	5.0	ug/Kg
4-Methyl-2-Pentanone	ND	5.0	ug/Kg
cis-1,3-Dichloropropene	ND	5.0	ug/Kg
Toluene	ND	5.0	ug/Kg
trans-1,3-Dichloropropene	ND	5.0	ug/Kg
1,1,2-Trichloroethane	ND	5.0	ug/Kg
1,3-Dichloropropane	ND	5.0	ug/Kg
Tetrachloroethene	ND	5.0	ug/Kg
Dibromochloromethane	ND	5.0	ug/Kg
1,2-Dibromoethane	ND	5.0	ug/Kg
Chlorobenzene	ND	5.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg
Ethylbenzene	ND	5.0	ug/Kg
m,p-Xylenes	ND	10	ug/Kg
o-Xylene	ND	5.0	ug/Kg
Styrene	ND	5.0	ug/Kg

Purgeable Organics by GC/MS: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Bromoform	ND	5.0	ug/Kg
Isopropylbenzene	ND	5.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg
1,2,3-Trichloropropane	ND	5.0	ug/Kg
Propylbenzene	ND	5.0	ug/Kg
Bromobenzene	ND	5.0	ug/Kg
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg
2-Chlorotoluene	ND	5.0	ug/Kg
4-Chlorotoluene	ND	5.0	ug/Kg
tert-Butylbenzene	ND	5.0	ug/Kg
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg
sec-Butylbenzene	ND	5.0	ug/Kg
para-Isopropyl Toluene	ND	5.0	ug/Kg
1,3-Dichlorobenzene	ND	5.0	ug/Kg
1,4-Dichlorobenzene	ND	5.0	ug/Kg
n-Butylbenzene	ND	5.0	ug/Kg
1,2-Dichlorobenzene	ND	5.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg
Hexachlorobutadiene	ND	5.0	ug/Kg
Naphthalene	ND	5.0	ug/Kg
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	98	70-130	
1,2-Dichloroethane-d4	107	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BS

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923449

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units
1,1-Dichloroethene	50.00	51.26	103	70-131	ug/Kg
MTBE	50.00	48.03	96	69-130	ug/Kg
Benzene	50.00	49.31	99	70-130	ug/Kg
Trichloroethene	50.00	49.52	99	70-130	ug/Kg
Toluene	50.00	50.96	102	70-130	ug/Kg
Chlorobenzene	50.00	50.41	101	70-130	ug/Kg

Surrogate	%REC	Limits
Dibromofluoromethane	94	70-130
1,2-Dichloroethane-d4	94	70-145
Toluene-d8	105	70-145
Bromofluorobenzene	103	70-145

Type: BSD

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923450

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
1,1-Dichloroethene	50.00	53.82	108	70-131	ug/Kg	5	33
MTBE	50.00	51.69	103	69-130	ug/Kg	7	30
Benzene	50.00	52.61	105	70-130	ug/Kg	6	30
Trichloroethene	50.00	50.41	101	70-130	ug/Kg	2	30
Toluene	50.00	51.84	104	70-130	ug/Kg	2	30
Chlorobenzene	50.00	51.66	103	70-130	ug/Kg	2	30

Surrogate	%REC	Limits
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	99	70-145
Toluene-d8	102	70-145
Bromofluorobenzene	101	70-145

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-01	Batch#: 266537	Prep: EPA 3546
Lab ID: 444718-001	Sampled: 04/28/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/07/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	36	29-120
Phenol-d6	40	30-120
2,4,6-Tribromophenol	51	32-120
Nitrobenzene-d5	36	33-120
2-Fluorobiphenyl	37 *	39-120
Terphenyl-d14	56	44-125

Legend

*: Value is outside QC limits

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-02	Batch#: 266537	Prep: EPA 3546
Lab ID: 444718-002	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/07/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	66	29-120
Phenol-d6	71	30-120
2,4,6-Tribromophenol	66	32-120
Nitrobenzene-d5	60	33-120
2-Fluorobiphenyl	63	39-120
Terphenyl-d14	67	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266537

Analysis: EPA 8270C

Lab ID: QC923305

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg
Surrogate	%REC	Limits	
2-Fluorophenol	56	29-120	
Phenol-d6	55	30-120	
2,4,6-Tribromophenol	47	32-120	
Nitrobenzene-d5	50	33-120	
2-Fluorobiphenyl	49	39-120	
Terphenyl-d14	71	44-125	

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266537	Analysis: EPA 8270C
Lab ID: QC923306	Prepared: 05/05/21	Analyst: DJL
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,299	65	42-120	ug/Kg
2-Chlorophenol	2,000	1,302	65	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,260	63	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,393	70	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,229	61	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,278	64	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,296	65	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,402	70	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,332	67	40-124	ug/Kg
Acenaphthene	2,000	1,232	62	35-126	ug/Kg
4-Nitrophenol	2,000	1,200	60	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,299	65	40-131	ug/Kg
Pentachlorophenol	2,000	1,038	52	35-120	ug/Kg
Pyrene	2,000	1,263	63	37-135	ug/Kg
Chrysene	2,000	1,306	65	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,401	70	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			67	29-120	
Phenol-d6			72	30-120	
2,4,6-Tribromophenol			64	32-120	
Nitrobenzene-d5			69	33-120	
2-Fluorobiphenyl			65	39-120	
Terphenyl-d14			66	44-125	

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 50.00	Analyzed: 05/05/21
MSS Lab ID: 444794-001	Batch#: 266537	Prep: EPA 3546
Lab ID: QC923307	Sampled: 05/03/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/03/21	Analyst: DJL

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Phenol	<8,500	2,000	374.3	DO	37-120	ug/Kg
2-Chlorophenol	<6,500	2,000	0	DO	33-120	ug/Kg
1,4-Dichlorobenzene	<7,600	2,000	411.2	DO	32-120	ug/Kg
3-,4-Methylphenol	<8,900	2,000	826.1	DO	37-120	ug/Kg
N-Nitroso-di-n-propylamine	<9,700	2,000	3,921	DO	32-120	ug/Kg
2,4-Dimethylphenol	<8,600	2,000	1,474	DO	32-120	ug/Kg
1,2,4-Trichlorobenzene	<6,600	2,000	1,019	DO	33-120	ug/Kg
4-Chloro-3-methylphenol	<5,400	2,000	1,367	DO	41-121	ug/Kg
2,4,5-Trichlorophenol	<6,200	2,000	0	DO	40-120	ug/Kg
Acenaphthene	<6,900	2,000	719.2	DO	37-120	ug/Kg
4-Nitrophenol	<10,000	2,000	16,080	DO	20-141	ug/Kg
2,4-Dinitrotoluene	<6,600	2,000	35,880	DO	33-128	ug/Kg
Pentachlorophenol	<14,200	2,000	0	DO	28-132	ug/Kg
Pyrene	<6,800	2,000	1,296	DO	39-135	ug/Kg
Chrysene	<5,800	2,000	952.8	DO	37-135	ug/Kg
Benzo(b)fluoranthene	<6,200	2,000	1,019	DO	34-139	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	DO	29-120
Phenol-d6	DO	30-120
2,4,6-Tribromophenol	DO	32-120
Nitrobenzene-d5	DO	33-120
2-Fluorobiphenyl	DO	39-120
Terphenyl-d14	DO	44-125

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 50.00	Analyzed: 05/05/21
MSS Lab ID: 444794-001	Batch#: 266537	Prep: EPA 3546
Lab ID: QC923308	Sampled: 05/03/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/03/21	Analyst: DJL

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Phenol	2,000	0	DO	37-120	ug/Kg	NC	49
2-Chlorophenol	2,000	0	DO	33-120	ug/Kg	NC	52
1,4-Dichlorobenzene	2,000	617.7	DO	32-120	ug/Kg	NC	50
3-,4-Methylphenol	2,000	1,280	DO	37-120	ug/Kg	NC	54
N-Nitroso-di-n-propylamine	2,000	1,474	DO	32-120	ug/Kg	NC	50
2,4-Dimethylphenol	2,000	1,528	DO	32-120	ug/Kg	NC	50
1,2,4-Trichlorobenzene	2,000	691.7	DO	33-120	ug/Kg	NC	50
4-Chloro-3-methylphenol	2,000	3,056	DO	41-121	ug/Kg	NC	43
2,4,5-Trichlorophenol	2,000	2,468	DO	40-120	ug/Kg	NC	47
Acenaphthene	2,000	1,164	DO	37-120	ug/Kg	NC	48
4-Nitrophenol	2,000	24,490	DO	20-141	ug/Kg	NC	30
2,4-Dinitrotoluene	2,000	1,859	DO	33-128	ug/Kg	NC	50
Pentachlorophenol	2,000	0	DO	28-132	ug/Kg	NC	30
Pyrene	2,000	1,379	DO	39-135	ug/Kg	NC	41
Chrysene	2,000	926.4	DO	37-135	ug/Kg	NC	46
Benzo(b)fluoranthene	2,000	1,032	DO	34-139	ug/Kg	NC	47

Surrogate	%REC	Limits
2-Fluorophenol	DO	29-120
Phenol-d6	DO	30-120
2,4,6-Tribromophenol	DO	32-120
Nitrobenzene-d5	DO	33-120
2-Fluorobiphenyl	DO	39-120
Terphenyl-d14	DO	44-125

Legend

DO: Diluted Out

NC: Not Calculated

RPD: Relative Percent Difference

Organochlorine Pesticides

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444718-001	Sampled: 04/28/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	7.9	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	62	23-120
Decachlorobiphenyl	59	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-02	Batch#: 266559	Prep: EPA 3546
Lab ID: 444718-002	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/05/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	49	23-120
Decachlorobiphenyl	46	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266559

Analysis: EPA 8081A

Lab ID: QC923376

Prepared: 05/05/21

Analyst: KTD

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	54	23-120
Decachlorobiphenyl	55	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923377	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
alpha-BHC	50.00	31.96	64	22-129	ug/Kg
beta-BHC	50.00	32.55	65	28-125	ug/Kg
gamma-BHC	50.00	32.43	65	22-128	ug/Kg
delta-BHC	50.00	32.37	65	24-131	ug/Kg
Heptachlor	50.00	32.34	65	18-124	ug/Kg
Aldrin	50.00	29.48	59	23-120	ug/Kg
Heptachlor epoxide	50.00	29.50	59	26-120	ug/Kg
Endosulfan I	50.00	32.44	65	25-126	ug/Kg
Dieldrin	50.00	32.14	64	23-124	ug/Kg
4,4'-DDE	50.00	31.77	64	28-121	ug/Kg
Endrin	50.00	32.89	66	25-127	ug/Kg
Endosulfan II	50.00	32.45	65	29-121	ug/Kg
Endosulfan sulfate	50.00	31.51	63	30-121	ug/Kg
4,4'-DDD	50.00	29.20	58	26-120	ug/Kg
Endrin aldehyde	50.00	21.32	43	10-120	ug/Kg
Endrin ketone	50.00	30.33	61	28-125	ug/Kg
4,4'-DDT	50.00	33.70	67	22-125	ug/Kg
Methoxychlor	50.00	34.76	70	28-130	ug/Kg
Surrogate			%REC	Limits	
TCMX			60	23-120	
Decachlorobiphenyl			61	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444718		Project#: 211283001				
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord				
Field ID: ZZZZZZZZZZ		Basis: as received		Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000		Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559		Prep: EPA 3546		
Lab ID: QC923378		Sampled: 04/22/21		Analysis: EPA 8081A		
Matrix: Soil		Received: 04/30/21		Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
alpha-BHC	<1.600	50.00	29.92	60	46-120	ug/Kg
beta-BHC	<1.500	50.00	29.08	58	41-120	ug/Kg
gamma-BHC	<2.000	50.00	30.42	61	41-120	ug/Kg
delta-BHC	<1.200	50.00	32.31	65	38-123	ug/Kg
Heptachlor	<1.300	50.00	26.32	53	39-120	ug/Kg
Aldrin	<1.500	50.00	28.21	56	34-120	ug/Kg
Heptachlor epoxide	<2.300	50.00	26.58	53	43-120	ug/Kg
Endosulfan I	<1.200	50.00	28.35	57	45-120	ug/Kg
Dieldrin	<2.100	50.00	28.19	56	45-120	ug/Kg
4,4'-DDE	5.593	50.00	28.74	46	34-120	ug/Kg
Endrin	<2.700	50.00	25.25	51	40-120	ug/Kg
Endosulfan II	<2.800	50.00	28.60	57	41-120	ug/Kg
Endosulfan sulfate	<3.400	50.00	28.02	56	42-120	ug/Kg
4,4'-DDD	<2.100	50.00	25.88	52	41-120	ug/Kg
Endrin aldehyde	<2.100	50.00	21.81	44	30-120	ug/Kg
Endrin ketone	<4.100	50.00	30.40	61	45-120	ug/Kg
4,4'-DDT	<2.000	50.00	30.72	61	35-127	ug/Kg
Methoxychlor	<9.200	50.00	31.27	63	42-136	ug/Kg
Surrogate				%REC	Limits	
TCMX				52	23-120	
Decachlorobiphenyl				52	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: ZZZZZZZZZZ

Basis: as received

Prepared: 05/05/21

Type: MSD

Diln Fac: 1.000

Analyzed: 05/05/21

MSS Lab ID: 444731-001

Batch#: 266559

Prep: EPA 3546

Lab ID: QC923379

Sampled: 04/22/21

Analysis: EPA 8081A

Matrix: Soil

Received: 04/30/21

Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
alpha-BHC	50.00	26.03	52	46-120	ug/Kg	14	30
beta-BHC	50.00	26.06	52	41-120	ug/Kg	11	30
gamma-BHC	50.00	27.07	54	41-120	ug/Kg	12	30
delta-BHC	50.00	28.63	57	38-123	ug/Kg	12	30
Heptachlor	50.00	23.65	47	39-120	ug/Kg	11	30
Aldrin	50.00	25.07	50	34-120	ug/Kg	12	30
Heptachlor epoxide	50.00	23.95	48	43-120	ug/Kg	10	30
Endosulfan I	50.00	25.82	52	45-120	ug/Kg	9	30
Dieldrin	50.00	24.26	49	45-120	ug/Kg	15	30
4,4'-DDE	50.00	26.17	41	34-120	ug/Kg	9	30
Endrin	50.00	18.27	37 *	40-120	ug/Kg	32 *	30
Endosulfan II	50.00	26.12	52	41-120	ug/Kg	9	30
Endosulfan sulfate	50.00	24.97	50	42-120	ug/Kg	11	30
4,4'-DDD	50.00	25.50	51	41-120	ug/Kg	1	30
Endrin aldehyde	50.00	20.61	41	30-120	ug/Kg	6	30
Endrin ketone	50.00	32.75	65	45-120	ug/Kg	7	30
4,4'-DDT	50.00	27.75	56	35-127	ug/Kg	10	30
Methoxychlor	50.00	28.64	57	42-136	ug/Kg	9	30

Surrogate	%REC	Limits
TCMX	48	23-120
Decachlorobiphenyl	48	24-120

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-01	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444718-001	Sampled: 04/28/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		55	19-121

Field ID: 3-SOIL-02	Diln Fac: 1.000	Analyzed: 05/05/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444718-002	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		44	19-121

Polychlorinated Biphenyls (PCBs)

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8082
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	52	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444718		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Batch#: 266559		Analysis: EPA 8082	
Lab ID: QC923380		Prepared: 05/05/21		Analyst: KTD	
Matrix: Soil		Analyzed: 05/05/21			
Diln Fac: 1.000		Prep: EPA 3546			
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	500.0	336.9	67	14-150	ug/Kg
Aroclor-1260	500.0	339.4	68	10-150	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl (PCB)			59	19-121	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444718		Project#: 211283001					
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord					
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923381		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	
Aroclor-1016	<3.000	500.0	294.7	59	42-127	ug/Kg	
Aroclor-1260	20.38	500.0	310.9	58	38-130	ug/Kg	
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				59	19-121		
Field ID: ZZZZZZZZZZ		Basis: as received			Prepared: 05/05/21		
Type: MSD		Diln Fac: 1.000			Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559			Prep: EPA 3546		
Lab ID: QC923382		Sampled: 04/22/21			Analysis: EPA 8082		
Matrix: Soil		Received: 04/30/21			Analyst: KTD		
Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	500.0	310.5	62	42-127	ug/Kg	5	30
Aroclor-1260	500.0	329.9	62	38-130	ug/Kg	6	30
Surrogate				%REC	Limits		
Decachlorobiphenyl (PCB)				63	19-121		

Legend

RPD: Relative Percent Difference

California Title 22 Metals

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444718-001

Basis: as received

Sampled: 04/28/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	0.89 J	1.0	0.69	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	21	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	9.8	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	120	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	38	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	3.2	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.16		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	13	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	13	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	9.1	5.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-02

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444718-002

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.5	1.0	0.70	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	30	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	12	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	2.1	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	5.7	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	6.5	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	13	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.52		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	25	5.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266545

Analysis: EPA 6010B

Lab ID: QC923337

Prepared: 05/05/21

Analyst: SBW

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266545	Analysis: EPA 6010B
Lab ID: QC923338	Prepared: 05/05/21	Analyst: SBW
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.90	99	80-120	mg/Kg
Arsenic	100.0	99.43	99	80-120	mg/Kg
Barium	100.0	98.31	98	80-120	mg/Kg
Beryllium	100.0	94.99	95	80-120	mg/Kg
Cadmium	100.0	95.29	95	80-120	mg/Kg
Chromium	100.0	97.58	98	80-120	mg/Kg
Cobalt	100.0	102.3	102	80-120	mg/Kg
Copper	100.0	95.65	96	80-120	mg/Kg
Lead	100.0	103.7	104	80-120	mg/Kg
Molybdenum	100.0	98.87	99	80-120	mg/Kg
Nickel	100.0	100.8	101	80-120	mg/Kg
Selenium	100.0	86.06	86	80-120	mg/Kg
Silver	50.00	45.81	92	80-120	mg/Kg
Thallium	100.0	99.43	99	80-120	mg/Kg
Vanadium	100.0	101.2	101	80-120	mg/Kg
Zinc	100.0	103.7	104	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923339	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.553	93.46	43.83	47 *	75-125	mg/Kg
Arsenic	2.768	93.46	93.68	97	75-125	mg/Kg
Barium	149.6	93.46	202.2	56 *	75-125	mg/Kg
Beryllium	0.08619	93.46	85.73	92	75-125	mg/Kg
Cadmium	0.4662	93.46	87.59	93	75-125	mg/Kg
Chromium	33.01	93.46	117.3	90	75-125	mg/Kg
Cobalt	4.170	93.46	96.33	99	75-125	mg/Kg
Copper	14.80	93.46	111.0	103	75-125	mg/Kg
Lead	181.3	93.46	210.4	31 *	75-125	mg/Kg
Molybdenum	<0.5728	93.46	87.06	93	75-125	mg/Kg
Nickel	15.37	93.46	103.0	94	75-125	mg/Kg
Selenium	<1.748	93.46	80.28	86	75-125	mg/Kg
Silver	<0.1553	46.73	41.48	89	75-125	mg/Kg
Thallium	<1.068	93.46	88.50	95	75-125	mg/Kg
Vanadium	17.27	93.46	109.5	99	75-125	mg/Kg
Zinc	194.9	93.46	256.6	66 *	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923340	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	46.31	47 *	75-125	mg/Kg	1	41
Arsenic	98.04	101.7	101	75-125	mg/Kg	4	35
Barium	98.04	213.7	65 *	75-125	mg/Kg	4	20
Beryllium	98.04	90.62	92	75-125	mg/Kg	1	20
Cadmium	98.04	95.42	97	75-125	mg/Kg	4	20
Chromium	98.04	126.2	95	75-125	mg/Kg	4	20
Cobalt	98.04	99.09	97	75-125	mg/Kg	2	20
Copper	98.04	108.9	96	75-125	mg/Kg	6	20
Lead	98.04	256.1	76	75-125	mg/Kg	18	20
Molybdenum	98.04	93.64	96	75-125	mg/Kg	2	20
Nickel	98.04	108.9	95	75-125	mg/Kg	1	20
Selenium	98.04	87.23	89	75-125	mg/Kg	4	20
Silver	49.02	44.97	92	75-125	mg/Kg	3	20
Thallium	98.04	95.20	97	75-125	mg/Kg	3	20
Vanadium	98.04	114.9	100	75-125	mg/Kg	1	20
Zinc	98.04	276.1	83	75-125	mg/Kg	6	20

California Title 22 Metals: Batch QC**Lab #:** 444718**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266563	Analysis: EPA 7471A
Lab ID: QC923394	Prepared: 05/05/21	Analyst: JDB
Matrix: Soil	Analyzed: 05/06/21	
Diln Fac: 1.000	Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 444718**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923395**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8069	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923396	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	0.2059	0.9615	1.097	93	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923397	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	1.000	1.166	96	75-125	mg/Kg	3	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 444718

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-01

Diln Fac: 1.000

Analyzed: 05/11/21 16:14

Type: SAMPLE

Batch#: 266848

Prep: EPA 3060A

Lab ID: 444718-001

Sampled: 04/28/21 13:30

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Basis: as received

Prepared: 05/11/21 11:50

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 3-SOIL-02

Diln Fac: 1.000

Analyzed: 05/11/21 16:14

Type: SAMPLE

Batch#: 266848

Prep: EPA 3060A

Lab ID: 444718-002

Sampled: 04/29/21 12:30

Analysis: EPA 7196A

Matrix: Soil

Received: 04/30/21

Analyst: ATP

Basis: as received

Prepared: 05/11/21 11:50

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 266848

Analysis: EPA 7196A

Lab ID: QC924217

Prepared: 05/11/21 11:50

Analyst: ATP

Matrix: Soil

Analyzed: 05/11/21 16:14

Diln Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 444718	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266848	Analysis: EPA 7196A
Lab ID: QC924218	Prepared: 05/11/21 11:50	Analyst: ATP
Matrix: Soil	Analyzed: 05/11/21 16:14	
Diln Fac: 5.000	Prep: EPA 3060A	

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.17	105	80-120	mg/Kg

Field ID: 5-SOIL 01	Basis: as received	Prepared: 05/11/21 11:50
Type: MS	Diln Fac: 5.000	Analyzed: 05/11/21 16:14
MSS Lab ID: 444721-001	Batch#: 266848	Prep: EPA 3060A
Lab ID: QC924219	Sampled: 04/29/21 08:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	35.59	89	75-125	mg/Kg

Field ID: 5-SOIL 01	Basis: as received	Prepared: 05/11/21 11:50
Type: MSD	Diln Fac: 5.000	Analyzed: 05/11/21 16:14
MSS Lab ID: 444721-001	Batch#: 266848	Prep: EPA 3060A
Lab ID: QC924220	Sampled: 04/29/21 08:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	36.27	91	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 444721
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	444721
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
5-SOIL 01	444721-001	04/29/21 08:00	Soil
5A-SOIL 01	444721-002	04/29/21 08:30	Soil
5B-SOIL 01	444721-003	04/29/21 09:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 444721
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 04/30/21. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Low recovery was observed for TPH gasoline in the MS for batch 266614; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015M):

Low recovery was observed for diesel C10-C28 in the LCS for batch 266535; the low recovery was not associated with any reported results. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

Low recoveries were observed for many analytes in the MS/MSD for batch 266824; the parent sample was not a project sample, and the LCS was within limits. High RPD was observed for a number of analytes; these analytes were not detected at or above the RL in the associated samples. Low surrogate recovery was observed in the MSD for batch 266824; the parent sample was not a project sample. 5-SOIL 01 (lab # 444721-001) was diluted due to the dark color of the sample extract. No other analytical problems were encountered.

Pesticides (EPA 8081A):

Low recovery was observed for endrin in the MSD for batch 266559; the parent sample was not a project sample, and the LCS was within limits. High RPD was also observed for endrin in the MS/MSD for batch 266559; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for a number of analytes in the MS/MSD of 1-SOIL 01 (lab # 444715-001); the LCS was within limits, and the associated RPDs were within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 444721
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

Sample ID: 5-SOIL 01

Lab ID: 444721-001

Collected: 04/29/21 08:00

Matrix: Soil

444721-001 Analyte

Method: EPA 6010B
Prep Method: EPA 3050B

	Result	Qual	Units	RL	MDL
Arsenic	1.1		mg/Kg	1.0	0.68
Barium	22		mg/Kg	1.0	
Chromium	11		mg/Kg	1.0	
Cobalt	1.9		mg/Kg	0.51	
Copper	3.3		mg/Kg	1.0	
Lead	8.1		mg/Kg	1.0	
Nickel	7.6		mg/Kg	1.0	
Vanadium	8.7		mg/Kg	1.0	
Zinc	25		mg/Kg	5.1	

Method: EPA 7471A
Prep Method: METHOD

Mercury	0.26		mg/Kg	0.14	
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Method: EPA 8082
Prep Method: EPA 3546

Aroclor-1260	230		ug/Kg	20	
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Method: EPA 8260B
Prep Method: EPA 5035

Acetone	180		ug/Kg	140	
para-Isopropyl Toluene	11		ug/Kg	7.1	

Sample ID: 5A-SOIL 01

Lab ID: 444721-002

Collected: 04/29/21 08:30

Matrix: Soil

444721-002 Analyte

Method: EPA 6010B
Prep Method: EPA 3050B

	Result	Qual	Units	RL	MDL
Arsenic	1.0		mg/Kg	0.85	0.57
Barium	36		mg/Kg	0.85	
Chromium	11		mg/Kg	0.85	
Cobalt	260		mg/Kg	0.42	
Copper	80		mg/Kg	0.85	
Lead	3.7		mg/Kg	0.85	
Nickel	30		mg/Kg	0.85	
Vanadium	12		mg/Kg	0.85	
Zinc	17		mg/Kg	4.2	

Detection Summary

Sample ID: 5B-SOIL 01	Lab ID: 444721-003	Collected: 04/29/21 09:30
	Matrix: Soil	

444721-003 Analyte	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.3		mg/Kg	0.98	0.66
Barium	19		mg/Kg	0.98	
Chromium	11		mg/Kg	0.98	
Cobalt	200		mg/Kg	0.49	
Copper	52		mg/Kg	0.98	
Lead	1.2		mg/Kg	0.98	
Nickel	45		mg/Kg	0.98	
Vanadium	12		mg/Kg	0.98	
Zinc	11		mg/Kg	4.9	
Method: EPA 8260B					
Prep Method: EPA 5035					
Naphthalene	5.1		ug/Kg	4.2	



Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710

Phone 510-486-0900

Chain of Custody Record

Lab No:

444721

Page:

1 of 1

Turn Around Time (rush by advanced notice only)

Standard: X

5 Day:

3 Day:

2 Day:

1 Day:

Custom TAT:

Matrix: A = Air S = Soil/Solid

= Water DW = Drinking Water SD = Sediment

PP = Pure Product SEA = Sea Water

SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:

1 = Na₂S₂O₃ 2 = HCl 3 =

HNO₃

4 = H₂SO₄ 5 = NaOH 6 =

Sample Receipt Temp:

(lab use only)

CUSTOMER INFORMATION

Company: Vista Environmental Consulting

Report To: Chris Burns/Aleshia Washington

Email: chrisburns@vista-env.com

Address: 2984 Teagarden Street

San Leandro, Ca 94577

Phone: 510-346-8860

Fax: aleshia.washington@vista-env.com

Sampled By: C. Burns

PROJECT INFORMATION

Name: City of Seaside -Former Fort Ord

Number: 211283001

P.O. #:

Address: Area 5

Global ID:

Analysis Request

VOCS & TPH-G EPA Method 8260B

TPH-D & MO Method 8015 following

silica gel prep by Method 3630M

CAM 17 Metals Method 6010B/7471A

PCBs Method 8082

Organochlorine Pesticides Method 8081A

Hexavalent Chromium Method 7196A

Test Instructions / Comments

Signature

Print Name

Company / Title

Date / Time

1 Relinquished By:

1 Received By:

2 Relinquished By:

2 Received By:

3 Relinquished By:

3 Received By:

04/29/21 - 1020

4/30/21 1020

5/3/21 1740

5/4/21 1025

LOS J. Aleshia

Cheryl

Miguel

EPD

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 444721
Date Received: 4/30/21

Client: Vista
Project: _____


Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/30/21 By (print) note (sign) [signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☒ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☒ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☒ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☒ C

Cooler Temp (°C): #1: 3.7, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?	☒		
If YES, what time were they transferred to freezer? <u>4/30/21 1330</u>			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?			☒
Was the client contacted concerning this sample delivery?		☒	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____
☐ HCL lot# _____ added to samples _____ on/at _____
☐ HNO3 lot# _____ added to samples _____ on/at _____
☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time.

Date Logged in 4/30/21 By (print) MTG for 214 (sign) [signature]
 Date Labeled 4/30/21 By (print) MTG (sign) [signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Vista Environmental Project: City of Seaside - Former Fort Ord
 Date Received: 5/4/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2
 Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 4.0 #2: _____ #3: _____ #4: _____
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: GLS

Section 3
 Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____
 Cooler Temp (°C): #1: 0.8 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments
NO FREE-FLOWING NAHSO₄ NOTED IN 2 VIALS EACH OF SAMPLES -001 AND 002.

Section 6
 For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: [Signature] Date: 5/4/21



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553178430

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

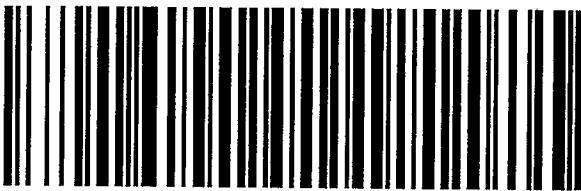
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S92868A



41313812

ORC CA927-CI1

Print Date: 5/3/2021 3:03 PM

Package 1 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

0-8 / 4-0

Gasoline by GC/FID (5035 Prep)

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5-SOIL 01

Batch#: 266614

Prep: EPA 5030B

Type: SAMPLE

Sampled: 04/29/21

Analysis: EPA 8015B

Lab ID: 444721-001

Received: 04/30/21

Analyst: EMW

Matrix: Soil

Prepared: 05/06/21

Basis: as received

Analyzed: 05/07/21

Analyte	Result	RL	Units	Diln Fac
TPH Gasoline	ND	3.0	mg/Kg	1.000

Surrogate	%REC	Limits	Diln Fac
Bromofluorobenzene (FID)	95	60-140	1.000

Field ID: 5B-SOIL 01

Batch#: 266614

Prep: EPA 5030B

Type: SAMPLE

Sampled: 04/29/21

Analysis: EPA 8015B

Lab ID: 444721-003

Received: 04/30/21

Analyst: EMW

Matrix: Soil

Prepared: 05/06/21

Basis: as received

Analyzed: 05/07/21

Analyte	Result	RL	Units	Diln Fac
TPH Gasoline	ND	2.7	mg/Kg	0.9100

Surrogate	%REC	Limits	Diln Fac
Bromofluorobenzene (FID)	95	60-140	1.000

Type: BLANK

Batch#: 266614

Analysis: EPA 8015B

Lab ID: QC923520

Prepared: 05/06/21

Analyst: EMW

Matrix: Soil

Analyzed: 05/06/21

Diln Fac: 1.000

Prep: EPA 5030B

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	60-140

Legend

ND: Not Detected

RL: Reporting Limit

Total Volatile Hydrocarbons

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL 01	Diln Fac: 1.000	Prep: EPA 5030B
Type: SAMPLE	Batch#: 266640	Analysis: EPA 8015B
Lab ID: 444721-002	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/30/21	
Basis: as received	Analyzed: 05/07/21	

Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Type: BLANK	Diln Fac: 1.000	Prep: EPA 5030B	
Lab ID: QC923622	Batch#: 266640	Analysis: EPA 8015B	
Matrix: Soil	Analyzed: 05/07/21	Analyst: EMW	
Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
Surrogate		%REC	Limits
Bromofluorobenzene (FID)		95	60-140

Legend

ND: Not Detected

RL: Reporting Limit

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444721		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923517		Batch#: 266614		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/06/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.418	108	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			135	60-140	

Gasoline by GC/FID (5035 Prep): Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923518	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	3.437	69 *	70-130	mg/Kg
Surrogate				%REC	Limits	
Bromofluorobenzene (FID)				105	60-140	

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/06/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444678-002	Batch#: 266614	Analysis: EPA 8015B
Lab ID: QC923519	Sampled: 04/29/21	Analyst: EMW
Matrix: Soil	Received: 04/29/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	3.537	71	70-130	mg/Kg	3	20
Surrogate				%REC	Limits		
Bromofluorobenzene (FID)				110	60-140		

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Total Volatile Hydrocarbons: Batch QC

Lab #: 444721		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Diln Fac: 1.000		Prep: EPA 5030B	
Lab ID: QC923619		Batch#: 266640		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 05/07/21		Analyst: EMW	
Analyte	Spiked	Result	%REC	Limits	Units
TPH Gasoline	5.000	5.156	103	70-130	mg/Kg
Surrogate			%REC	Limits	
Bromofluorobenzene (FID)			105	60-140	

Total Volatile Hydrocarbons: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/07/21
Type: MS	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444901-001	Batch#: 266640	Analysis: EPA 8015B
Lab ID: QC923620	Sampled: 05/04/21	Analyst: EMW
Matrix: Soil	Received: 05/04/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<3.000	5.000	4.756	95	70-130	mg/Kg

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	135	60-140

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 05/07/21
Type: MSD	Diln Fac: 1.000	Prep: EPA 5030B
MSS Lab ID: 444901-001	Batch#: 266640	Analysis: EPA 8015B
Lab ID: QC923621	Sampled: 05/04/21	Analyst: EMW
Matrix: Soil	Received: 05/04/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.000	4.586	92	70-130	mg/Kg	4	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	135	60-140

Legend

RPD: Relative Percent Difference

Extractable Carbon Chain

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Diln Fac: 1.000	Analyzed: 05/05/21	
Type: SAMPLE	Batch#: 266535	Prep: EPA 3580	
Lab ID: 444721-001	Sampled: 04/29/21	Cleanup Method: EPA 3630C	
Matrix: Soil	Received: 04/30/21	Analysis: EPA 8015M	
Basis: as received	Prepared: 05/05/21	Analyst: MES	
Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	9.9	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	96	70-130	
Field ID: 5A-SOIL 01		Analyzed: 05/05/21	
Type: SAMPLE		Prep: EPA 3580	
Lab ID: 444721-002		Cleanup Method: EPA 3630C	
Matrix: Soil		Analysis: EPA 8015M	
Basis: as received		Analyst: MES	
Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	9.9	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	101	70-130	
Field ID: 5B-SOIL 01		Analyzed: 05/05/21	
Type: SAMPLE		Prep: EPA 3580	
Lab ID: 444721-003		Cleanup Method: EPA 3630C	
Matrix: Soil		Analysis: EPA 8015M	
Basis: as received		Analyst: MES	
Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	92	70-130	

Extractable Carbon Chain

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923298	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Result	RL	Units
DRO C10-C28 (SGCU)	ND	10	mg/Kg
ORO C28-C44 (SGCU)	ND	20	mg/Kg
Surrogate	%REC	Limits	
n-Triacontane (SGCU)	94	70-130	

Legend

(SGCU): Silica gel cleanup

ND: Not Detected

RL: Reporting Limit

Extractable Carbon Chain: Batch QC

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266535	Cleanup Method: EPA 3630C	
Lab ID: QC923299	Prepared: 05/05/21	Analysis: EPA 8015M	
Matrix: Soil	Analyzed: 05/05/21	Analyst: MES	
Diln Fac: 1.000	Prep: EPA 3580		

Analyte	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	247.5	156.0	63 *	76-122	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	87	70-130

Legend

(SGCU): Silica gel cleanup

*: Value is outside QC limits

Extractable Carbon Chain: Batch QC

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MS	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923300	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Diesel C10-C28 (SGCU)	3.186	250.0	182.1	72	62-126	mg/Kg

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Field ID: 1-SOIL 02	Matrix: Soil	Sampled: 04/28/21	Prep: EPA 3580
Type: MSD	Basis: as received	Received: 04/30/21	Cleanup Method: EPA 3630C
MSS Lab ID: 444715-002	Diln Fac: 1.000	Prepared: 05/05/21	Analysis: EPA 8015M
Lab ID: QC923301	Batch#: 266535	Analyzed: 05/05/21	Analyst: MES

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Diesel C10-C28 (SGCU)	250.0	184.3	72	62-126	mg/Kg	1	35

Surrogate	%REC	Limits
n-Triacontane (SGCU)	93	70-130

Legend

(SGCU): Silica gel cleanup

RPD: Relative Percent Difference

Purgeable Organics by GC/MS

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Diln Fac: 1.429	Analyzed: 05/06/21
Lab ID: 444721-001	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	7.1	ug/Kg
Chloromethane	ND	7.1	ug/Kg
Vinyl Chloride	ND	7.1	ug/Kg
Bromomethane	ND	7.1	ug/Kg
Chloroethane	ND	7.1	ug/Kg
Trichlorofluoromethane	ND	7.1	ug/Kg
Acetone	180	140	ug/Kg
Freon 113	ND	7.1	ug/Kg
1,1-Dichloroethene	ND	7.1	ug/Kg
Methylene Chloride	ND	7.1	ug/Kg
MTBE	ND	7.1	ug/Kg
trans-1,2-Dichloroethene	ND	7.1	ug/Kg
1,1-Dichloroethane	ND	7.1	ug/Kg
2-Butanone	ND	140	ug/Kg
cis-1,2-Dichloroethene	ND	7.1	ug/Kg
2,2-Dichloropropane	ND	7.1	ug/Kg
Chloroform	ND	7.1	ug/Kg
Bromochloromethane	ND	7.1	ug/Kg
1,1,1-Trichloroethane	ND	7.1	ug/Kg
1,1-Dichloropropene	ND	7.1	ug/Kg
Carbon Tetrachloride	ND	7.1	ug/Kg
1,2-Dichloroethane	ND	7.1	ug/Kg
Benzene	ND	7.1	ug/Kg
Trichloroethene	ND	7.1	ug/Kg
1,2-Dichloropropane	ND	7.1	ug/Kg
Bromodichloromethane	ND	7.1	ug/Kg
Dibromomethane	ND	7.1	ug/Kg
4-Methyl-2-Pentanone	ND	7.1	ug/Kg
cis-1,3-Dichloropropene	ND	7.1	ug/Kg
Toluene	ND	7.1	ug/Kg
trans-1,3-Dichloropropene	ND	7.1	ug/Kg
1,1,2-Trichloroethane	ND	7.1	ug/Kg
1,3-Dichloropropane	ND	7.1	ug/Kg
Tetrachloroethene	ND	7.1	ug/Kg
Dibromochloromethane	ND	7.1	ug/Kg
1,2-Dibromoethane	ND	7.1	ug/Kg
Chlorobenzene	ND	7.1	ug/Kg
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg
Ethylbenzene	ND	7.1	ug/Kg
m,p-Xylenes	ND	14	ug/Kg
o-Xylene	ND	7.1	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	7.1	ug/Kg
Bromoform	ND	7.1	ug/Kg
Isopropylbenzene	ND	7.1	ug/Kg
1,1,2,2-Tetrachloroethane	ND	7.1	ug/Kg
1,2,3-Trichloropropane	ND	7.1	ug/Kg
Propylbenzene	ND	7.1	ug/Kg
Bromobenzene	ND	7.1	ug/Kg
1,3,5-Trimethylbenzene	ND	7.1	ug/Kg
2-Chlorotoluene	ND	7.1	ug/Kg
4-Chlorotoluene	ND	7.1	ug/Kg
tert-Butylbenzene	ND	7.1	ug/Kg
1,2,4-Trimethylbenzene	ND	7.1	ug/Kg
sec-Butylbenzene	ND	7.1	ug/Kg
para-Isopropyl Toluene	11	7.1	ug/Kg
1,3-Dichlorobenzene	ND	7.1	ug/Kg
1,4-Dichlorobenzene	ND	7.1	ug/Kg
n-Butylbenzene	ND	7.1	ug/Kg
1,2-Dichlorobenzene	ND	7.1	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	7.1	ug/Kg
1,2,4-Trichlorobenzene	ND	7.1	ug/Kg
Hexachlorobutadiene	ND	7.1	ug/Kg
Naphthalene	ND	7.1	ug/Kg
1,2,3-Trichlorobenzene	ND	7.1	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	90	70-145	
1,2-Dichloroethane-d4	104	70-145	
Toluene-d8	104	70-145	
Bromofluorobenzene	96	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444721		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL 01	Diln Fac: 0.9434	Analyzed: 05/06/21	
Lab ID: 444721-002	Batch#: 266584	Prep: EPA 5035	
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B	
Basis: as received	Received: 04/30/21	Analyst: RAO	
Analyte	Result	RL	Units
Freon 12	ND	4.7	ug/Kg
Chloromethane	ND	4.7	ug/Kg
Vinyl Chloride	ND	4.7	ug/Kg
Bromomethane	ND	4.7	ug/Kg
Chloroethane	ND	4.7	ug/Kg
Trichlorofluoromethane	ND	4.7	ug/Kg
Acetone	ND	94	ug/Kg
Freon 113	ND	4.7	ug/Kg
1,1-Dichloroethene	ND	4.7	ug/Kg
Methylene Chloride	ND	4.7	ug/Kg
MTBE	ND	4.7	ug/Kg
trans-1,2-Dichloroethene	ND	4.7	ug/Kg
1,1-Dichloroethane	ND	4.7	ug/Kg
2-Butanone	ND	94	ug/Kg
cis-1,2-Dichloroethene	ND	4.7	ug/Kg
2,2-Dichloropropane	ND	4.7	ug/Kg
Chloroform	ND	4.7	ug/Kg
Bromochloromethane	ND	4.7	ug/Kg
1,1,1-Trichloroethane	ND	4.7	ug/Kg
1,1-Dichloropropene	ND	4.7	ug/Kg
Carbon Tetrachloride	ND	4.7	ug/Kg
1,2-Dichloroethane	ND	4.7	ug/Kg
Benzene	ND	4.7	ug/Kg
Trichloroethene	ND	4.7	ug/Kg
1,2-Dichloropropane	ND	4.7	ug/Kg
Bromodichloromethane	ND	4.7	ug/Kg
Dibromomethane	ND	4.7	ug/Kg
4-Methyl-2-Pentanone	ND	4.7	ug/Kg
cis-1,3-Dichloropropene	ND	4.7	ug/Kg
Toluene	ND	4.7	ug/Kg
trans-1,3-Dichloropropene	ND	4.7	ug/Kg
1,1,2-Trichloroethane	ND	4.7	ug/Kg
1,3-Dichloropropane	ND	4.7	ug/Kg
Tetrachloroethene	ND	4.7	ug/Kg
Dibromochloromethane	ND	4.7	ug/Kg
1,2-Dibromoethane	ND	4.7	ug/Kg
Chlorobenzene	ND	4.7	ug/Kg
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg
Ethylbenzene	ND	4.7	ug/Kg
m,p-Xylenes	ND	9.4	ug/Kg
o-Xylene	ND	4.7	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	4.7	ug/Kg
Bromoform	ND	4.7	ug/Kg
Isopropylbenzene	ND	4.7	ug/Kg
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg
1,2,3-Trichloropropane	ND	4.7	ug/Kg
Propylbenzene	ND	4.7	ug/Kg
Bromobenzene	ND	4.7	ug/Kg
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg
2-Chlorotoluene	ND	4.7	ug/Kg
4-Chlorotoluene	ND	4.7	ug/Kg
tert-Butylbenzene	ND	4.7	ug/Kg
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg
sec-Butylbenzene	ND	4.7	ug/Kg
para-Isopropyl Toluene	ND	4.7	ug/Kg
1,3-Dichlorobenzene	ND	4.7	ug/Kg
1,4-Dichlorobenzene	ND	4.7	ug/Kg
n-Butylbenzene	ND	4.7	ug/Kg
1,2-Dichlorobenzene	ND	4.7	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	4.7	ug/Kg
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg
Hexachlorobutadiene	ND	4.7	ug/Kg
Naphthalene	ND	4.7	ug/Kg
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	94	70-145	
1,2-Dichloroethane-d4	106	70-145	
Toluene-d8	100	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5B-SOIL 01	Diln Fac: 0.8333	Analyzed: 05/06/21
Lab ID: 444721-003	Batch#: 266584	Prep: EPA 5035
Matrix: Soil	Sampled: 04/29/21	Analysis: EPA 8260B
Basis: as received	Received: 04/30/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	4.2	ug/Kg
Chloromethane	ND	4.2	ug/Kg
Vinyl Chloride	ND	4.2	ug/Kg
Bromomethane	ND	4.2	ug/Kg
Chloroethane	ND	4.2	ug/Kg
Trichlorofluoromethane	ND	4.2	ug/Kg
Acetone	ND	83	ug/Kg
Freon 113	ND	4.2	ug/Kg
1,1-Dichloroethene	ND	4.2	ug/Kg
Methylene Chloride	ND	4.2	ug/Kg
MTBE	ND	4.2	ug/Kg
trans-1,2-Dichloroethene	ND	4.2	ug/Kg
1,1-Dichloroethane	ND	4.2	ug/Kg
2-Butanone	ND	83	ug/Kg
cis-1,2-Dichloroethene	ND	4.2	ug/Kg
2,2-Dichloropropane	ND	4.2	ug/Kg
Chloroform	ND	4.2	ug/Kg
Bromochloromethane	ND	4.2	ug/Kg
1,1,1-Trichloroethane	ND	4.2	ug/Kg
1,1-Dichloropropene	ND	4.2	ug/Kg
Carbon Tetrachloride	ND	4.2	ug/Kg
1,2-Dichloroethane	ND	4.2	ug/Kg
Benzene	ND	4.2	ug/Kg
Trichloroethene	ND	4.2	ug/Kg
1,2-Dichloropropane	ND	4.2	ug/Kg
Bromodichloromethane	ND	4.2	ug/Kg
Dibromomethane	ND	4.2	ug/Kg
4-Methyl-2-Pentanone	ND	4.2	ug/Kg
cis-1,3-Dichloropropene	ND	4.2	ug/Kg
Toluene	ND	4.2	ug/Kg
trans-1,3-Dichloropropene	ND	4.2	ug/Kg
1,1,2-Trichloroethane	ND	4.2	ug/Kg
1,3-Dichloropropane	ND	4.2	ug/Kg
Tetrachloroethene	ND	4.2	ug/Kg
Dibromochloromethane	ND	4.2	ug/Kg
1,2-Dibromoethane	ND	4.2	ug/Kg
Chlorobenzene	ND	4.2	ug/Kg
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg
Ethylbenzene	ND	4.2	ug/Kg
m,p-Xylenes	ND	8.3	ug/Kg
o-Xylene	ND	4.2	ug/Kg

Purgeable Organics by GC/MS

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Styrene	ND	4.2	ug/Kg
Bromoform	ND	4.2	ug/Kg
Isopropylbenzene	ND	4.2	ug/Kg
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg
1,2,3-Trichloropropane	ND	4.2	ug/Kg
Propylbenzene	ND	4.2	ug/Kg
Bromobenzene	ND	4.2	ug/Kg
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg
2-Chlorotoluene	ND	4.2	ug/Kg
4-Chlorotoluene	ND	4.2	ug/Kg
tert-Butylbenzene	ND	4.2	ug/Kg
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg
sec-Butylbenzene	ND	4.2	ug/Kg
para-Isopropyl Toluene	ND	4.2	ug/Kg
1,3-Dichlorobenzene	ND	4.2	ug/Kg
1,4-Dichlorobenzene	ND	4.2	ug/Kg
n-Butylbenzene	ND	4.2	ug/Kg
1,2-Dichlorobenzene	ND	4.2	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	4.2	ug/Kg
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg
Hexachlorobutadiene	ND	4.2	ug/Kg
Naphthalene	5.1	4.2	ug/Kg
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	96	70-145	
1,2-Dichloroethane-d4	109	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	96	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Diln Fac: 1.000	Prep: EPA 5035
Lab ID: QC923448	Batch#: 266584	Analysis: EPA 8260B
Matrix: Soil	Analyzed: 05/05/21	Analyst: RAO

Analyte	Result	RL	Units
Freon 12	ND	5.0	ug/Kg
Chloromethane	ND	5.0	ug/Kg
Vinyl Chloride	ND	5.0	ug/Kg
Bromomethane	ND	5.0	ug/Kg
Chloroethane	ND	5.0	ug/Kg
Trichlorofluoromethane	ND	5.0	ug/Kg
Acetone	ND	100	ug/Kg
Freon 113	ND	5.0	ug/Kg
1,1-Dichloroethene	ND	5.0	ug/Kg
Methylene Chloride	ND	5.0	ug/Kg
MTBE	ND	5.0	ug/Kg
trans-1,2-Dichloroethene	ND	5.0	ug/Kg
1,1-Dichloroethane	ND	5.0	ug/Kg
2-Butanone	ND	100	ug/Kg
cis-1,2-Dichloroethene	ND	5.0	ug/Kg
2,2-Dichloropropane	ND	5.0	ug/Kg
Chloroform	ND	5.0	ug/Kg
Bromochloromethane	ND	5.0	ug/Kg
1,1,1-Trichloroethane	ND	5.0	ug/Kg
1,1-Dichloropropene	ND	5.0	ug/Kg
Carbon Tetrachloride	ND	5.0	ug/Kg
1,2-Dichloroethane	ND	5.0	ug/Kg
Benzene	ND	5.0	ug/Kg
Trichloroethene	ND	5.0	ug/Kg
1,2-Dichloropropane	ND	5.0	ug/Kg
Bromodichloromethane	ND	5.0	ug/Kg
Dibromomethane	ND	5.0	ug/Kg
4-Methyl-2-Pentanone	ND	5.0	ug/Kg
cis-1,3-Dichloropropene	ND	5.0	ug/Kg
Toluene	ND	5.0	ug/Kg
trans-1,3-Dichloropropene	ND	5.0	ug/Kg
1,1,2-Trichloroethane	ND	5.0	ug/Kg
1,3-Dichloropropane	ND	5.0	ug/Kg
Tetrachloroethene	ND	5.0	ug/Kg
Dibromochloromethane	ND	5.0	ug/Kg
1,2-Dibromoethane	ND	5.0	ug/Kg
Chlorobenzene	ND	5.0	ug/Kg
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg
Ethylbenzene	ND	5.0	ug/Kg
m,p-Xylenes	ND	10	ug/Kg
o-Xylene	ND	5.0	ug/Kg
Styrene	ND	5.0	ug/Kg

Purgeable Organics by GC/MS: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
Bromoform	ND	5.0	ug/Kg
Isopropylbenzene	ND	5.0	ug/Kg
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg
1,2,3-Trichloropropane	ND	5.0	ug/Kg
Propylbenzene	ND	5.0	ug/Kg
Bromobenzene	ND	5.0	ug/Kg
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg
2-Chlorotoluene	ND	5.0	ug/Kg
4-Chlorotoluene	ND	5.0	ug/Kg
tert-Butylbenzene	ND	5.0	ug/Kg
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg
sec-Butylbenzene	ND	5.0	ug/Kg
para-Isopropyl Toluene	ND	5.0	ug/Kg
1,3-Dichlorobenzene	ND	5.0	ug/Kg
1,4-Dichlorobenzene	ND	5.0	ug/Kg
n-Butylbenzene	ND	5.0	ug/Kg
1,2-Dichlorobenzene	ND	5.0	ug/Kg
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg
Hexachlorobutadiene	ND	5.0	ug/Kg
Naphthalene	ND	5.0	ug/Kg
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg
Surrogate	%REC	Limits	
Dibromofluoromethane	98	70-130	
1,2-Dichloroethane-d4	107	70-145	
Toluene-d8	98	70-145	
Bromofluorobenzene	94	70-145	

Legend

ND: Not Detected

RL: Reporting Limit

Purgeable Organics by GC/MS: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BS

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923449

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units
1,1-Dichloroethene	50.00	51.26	103	70-131	ug/Kg
MTBE	50.00	48.03	96	69-130	ug/Kg
Benzene	50.00	49.31	99	70-130	ug/Kg
Trichloroethene	50.00	49.52	99	70-130	ug/Kg
Toluene	50.00	50.96	102	70-130	ug/Kg
Chlorobenzene	50.00	50.41	101	70-130	ug/Kg

Surrogate	%REC	Limits
Dibromofluoromethane	94	70-130
1,2-Dichloroethane-d4	94	70-145
Toluene-d8	105	70-145
Bromofluorobenzene	103	70-145

Type: BSD

Diln Fac: 1.000

Prep: EPA 5035

Lab ID: QC923450

Batch#: 266584

Analysis: EPA 8260B

Matrix: Soil

Analyzed: 05/05/21

Analyst: RAO

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
1,1-Dichloroethene	50.00	53.82	108	70-131	ug/Kg	5	33
MTBE	50.00	51.69	103	69-130	ug/Kg	7	30
Benzene	50.00	52.61	105	70-130	ug/Kg	6	30
Trichloroethene	50.00	50.41	101	70-130	ug/Kg	2	30
Toluene	50.00	51.84	104	70-130	ug/Kg	2	30
Chlorobenzene	50.00	51.66	103	70-130	ug/Kg	2	30

Surrogate	%REC	Limits
Dibromofluoromethane	99	70-130
1,2-Dichloroethane-d4	99	70-145
Toluene-d8	102	70-145
Bromofluorobenzene	101	70-145

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Batch#: 266538	Prep: EPA 3546
Lab ID: 444721-001	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/05/21	
Diln Fac: 4.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
Carbazole	ND	1,000	ug/Kg
1-Methylnaphthalene	ND	1,000	ug/Kg
Pyridine	ND	1,000	ug/Kg
N-Nitrosodimethylamine	ND	1,000	ug/Kg
Phenol	ND	1,000	ug/Kg
Aniline	ND	1,000	ug/Kg
bis(2-Chloroethyl)ether	ND	4,800	ug/Kg
2-Chlorophenol	ND	1,000	ug/Kg
1,3-Dichlorobenzene	ND	1,000	ug/Kg
1,4-Dichlorobenzene	ND	1,000	ug/Kg
Benzyl alcohol	ND	1,000	ug/Kg
1,2-Dichlorobenzene	ND	1,000	ug/Kg
2-Methylphenol	ND	1,000	ug/Kg
bis(2-Chloroisopropyl) ether	ND	1,000	ug/Kg
3-,4-Methylphenol	ND	1,600	ug/Kg
N-Nitroso-di-n-propylamine	ND	1,000	ug/Kg
Hexachloroethane	ND	1,000	ug/Kg
Nitrobenzene	ND	4,800	ug/Kg
Isophorone	ND	1,000	ug/Kg
2-Nitrophenol	ND	1,000	ug/Kg
2,4-Dimethylphenol	ND	1,000	ug/Kg
Benzoic acid	ND	4,800	ug/Kg
bis(2-Chloroethoxy)methane	ND	1,000	ug/Kg
2,4-Dichlorophenol	ND	1,000	ug/Kg
1,2,4-Trichlorobenzene	ND	1,000	ug/Kg
Naphthalene	ND	1,000	ug/Kg
4-Chloroaniline	ND	1,000	ug/Kg
Hexachlorobutadiene	ND	1,000	ug/Kg
4-Chloro-3-methylphenol	ND	1,000	ug/Kg
2-Methylnaphthalene	ND	1,000	ug/Kg
Hexachlorocyclopentadiene	ND	4,800	ug/Kg
2,4,6-Trichlorophenol	ND	1,000	ug/Kg
2,4,5-Trichlorophenol	ND	1,000	ug/Kg
2-Chloronaphthalene	ND	1,000	ug/Kg
2-Nitroaniline	ND	1,000	ug/Kg
Dimethylphthalate	ND	1,000	ug/Kg
Acenaphthylene	ND	1,000	ug/Kg
2,6-Dinitrotoluene	ND	1,000	ug/Kg
3-Nitroaniline	ND	1,000	ug/Kg
Acenaphthene	ND	1,000	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	4,800	ug/Kg
4-Nitrophenol	ND	1,000	ug/Kg
Dibenzofuran	ND	1,000	ug/Kg
2,4-Dinitrotoluene	ND	1,000	ug/Kg
Diethylphthalate	ND	1,000	ug/Kg
Fluorene	ND	1,000	ug/Kg
4-Chlorophenyl-phenylether	ND	1,000	ug/Kg
4-Nitroaniline	ND	1,000	ug/Kg
4,6-Dinitro-2-methylphenol	ND	1,000	ug/Kg
N-Nitrosodiphenylamine	ND	1,000	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	1,000	ug/Kg
4-Bromophenyl-phenylether	ND	1,000	ug/Kg
Hexachlorobenzene	ND	1,000	ug/Kg
Pentachlorophenol	ND	4,800	ug/Kg
Phenanthrene	ND	1,000	ug/Kg
Anthracene	ND	1,000	ug/Kg
Di-n-butylphthalate	ND	1,000	ug/Kg
Fluoranthene	ND	1,000	ug/Kg
Benzidine	ND	4,800	ug/Kg
Pyrene	ND	1,000	ug/Kg
Butylbenzylphthalate	ND	1,000	ug/Kg
3,3'-Dichlorobenzidine	ND	4,800	ug/Kg
Benzo(a)anthracene	ND	1,000	ug/Kg
Chrysene	ND	1,000	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	1,000	ug/Kg
Di-n-octylphthalate	ND	1,000	ug/Kg
Benzo(b)fluoranthene	ND	1,000	ug/Kg
Benzo(k)fluoranthene	ND	1,000	ug/Kg
Benzo(a)pyrene	ND	1,000	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	1,000	ug/Kg
Dibenz(a,h)anthracene	ND	1,000	ug/Kg
Benzo(g,h,i)perylene	ND	1,000	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	47	29-120
Phenol-d6	51	30-120
2,4,6-Tribromophenol	46	32-120
Nitrobenzene-d5	45	33-120
2-Fluorobiphenyl	45	39-120
Terphenyl-d14	54	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL 01	Batch#: 266824	Prep: EPA 3546
Lab ID: 444721-002	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/10/21	
Diln Fac: 1.000	Analyzed: 05/11/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	58	29-120
Phenol-d6	58	30-120
2,4,6-Tribromophenol	47	32-120
Nitrobenzene-d5	51	33-120
2-Fluorobiphenyl	54	39-120
Terphenyl-d14	49	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5B-SOIL 01	Batch#: 266824	Prep: EPA 3546
Lab ID: 444721-003	Sampled: 04/29/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL
Basis: as received	Prepared: 05/10/21	
Diln Fac: 1.000	Analyzed: 05/11/21	

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg

EPA 8270 Semi-Volatile Organics

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
2,4-Dinitrophenol	ND	1,200	ug/Kg
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	58	29-120
Phenol-d6	60	30-120
2,4,6-Tribromophenol	58	32-120
Nitrobenzene-d5	51	33-120
2-Fluorobiphenyl	54	39-120
Terphenyl-d14	62	44-125

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266538

Analysis: EPA 8270C

Lab ID: QC923309

Prepared: 05/05/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/06/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg
Surrogate	%REC	Limits	
2-Fluorophenol	60	29-120	
Phenol-d6	59	30-120	
2,4,6-Tribromophenol	50	32-120	
Nitrobenzene-d5	59	33-120	
2-Fluorobiphenyl	55	39-120	
Terphenyl-d14	58	44-125	

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266538	Analysis: EPA 8270C
Lab ID: QC923310	Prepared: 05/05/21	Analyst: DJL
Matrix: Soil	Analyzed: 05/06/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,160	58	42-120	ug/Kg
2-Chlorophenol	2,000	1,153	58	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,165	58	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,203	60	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,127	56	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,145	57	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,164	58	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,165	58	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,069	53	40-124	ug/Kg
Acenaphthene	2,000	1,094	55	35-126	ug/Kg
4-Nitrophenol	2,000	1,009	50	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,128	56	40-131	ug/Kg
Pentachlorophenol	2,000	885.2	44	35-120	ug/Kg
Pyrene	2,000	1,081	54	37-135	ug/Kg
Chrysene	2,000	1,124	56	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,232	62	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			63	29-120	
Phenol-d6			65	30-120	
2,4,6-Tribromophenol			59	32-120	
Nitrobenzene-d5			65	33-120	
2-Fluorobiphenyl			58	39-120	
Terphenyl-d14			59	44-125	

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 4C-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444719-003	Batch#: 266538	Prep: EPA 3546
Lab ID: QC923311	Sampled: 04/28/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Phenol	<85.00	2,000	1,199	60	37-120	ug/Kg
2-Chlorophenol	<65.00	2,000	1,192	60	33-120	ug/Kg
1,4-Dichlorobenzene	<76.00	2,000	1,173	59	32-120	ug/Kg
3-,4-Methylphenol	<89.00	2,000	1,297	65	37-120	ug/Kg
N-Nitroso-di-n-propylamine	<97.00	2,000	1,138	57	32-120	ug/Kg
2,4-Dimethylphenol	<86.00	2,000	1,212	61	32-120	ug/Kg
1,2,4-Trichlorobenzene	<66.00	2,000	1,216	61	33-120	ug/Kg
4-Chloro-3-methylphenol	<54.00	2,000	1,225	61	41-121	ug/Kg
2,4,5-Trichlorophenol	<62.00	2,000	1,191	60	40-120	ug/Kg
Acenaphthene	<69.00	2,000	1,091	55	37-120	ug/Kg
4-Nitrophenol	<100.0	2,000	933.8	47	20-141	ug/Kg
2,4-Dinitrotoluene	<66.00	2,000	1,096	55	33-128	ug/Kg
Pentachlorophenol	<142.0	2,000	946.9	47	28-132	ug/Kg
Pyrene	<68.00	2,000	1,175	59	39-135	ug/Kg
Chrysene	<58.00	2,000	1,198	60	37-135	ug/Kg
Benzo(b)fluoranthene	<62.00	2,000	1,313	66	34-139	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	64	29-120
Phenol-d6	69	30-120
2,4,6-Tribromophenol	63	32-120
Nitrobenzene-d5	64	33-120
2-Fluorobiphenyl	59	39-120
Terphenyl-d14	64	44-125

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 4C-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444719-003	Batch#: 266538	Prep: EPA 3546
Lab ID: QC923312	Sampled: 04/28/21	Analysis: EPA 8270C
Matrix: Soil	Received: 04/30/21	Analyst: DJL

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Phenol	2,000	1,236	62	37-120	ug/Kg	3	49
2-Chlorophenol	2,000	1,183	59	33-120	ug/Kg	1	52
1,4-Dichlorobenzene	2,000	1,162	58	32-120	ug/Kg	1	50
3-,4-Methylphenol	2,000	1,194	60	37-120	ug/Kg	8	54
N-Nitroso-di-n-propylamine	2,000	1,079	54	32-120	ug/Kg	5	50
2,4-Dimethylphenol	2,000	1,204	60	32-120	ug/Kg	1	50
1,2,4-Trichlorobenzene	2,000	1,176	59	33-120	ug/Kg	3	50
4-Chloro-3-methylphenol	2,000	1,128	56	41-121	ug/Kg	8	43
2,4,5-Trichlorophenol	2,000	1,129	56	40-120	ug/Kg	5	47
Acenaphthene	2,000	1,041	52	37-120	ug/Kg	5	48
4-Nitrophenol	2,000	1,048	52	20-141	ug/Kg	12	30
2,4-Dinitrotoluene	2,000	983.0	49	33-128	ug/Kg	11	50
Pentachlorophenol	2,000	920.8	46	28-132	ug/Kg	3	30
Pyrene	2,000	1,090	55	39-135	ug/Kg	8	41
Chrysene	2,000	1,069	53	37-135	ug/Kg	11	46
Benzo(b)fluoranthene	2,000	1,194	60	34-139	ug/Kg	10	47

Surrogate	%REC	Limits
2-Fluorophenol	66	29-120
Phenol-d6	68	30-120
2,4,6-Tribromophenol	55	32-120
Nitrobenzene-d5	63	33-120
2-Fluorobiphenyl	55	39-120
Terphenyl-d14	59	44-125

Legend

RPD: Relative Percent Difference

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 266824

Analysis: EPA 8270C

Lab ID: QC924142

Prepared: 05/10/21

Analyst: DJL

Matrix: Soil

Analyzed: 05/10/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Result	RL	Units
Carbazole	ND	250	ug/Kg
1-Methylnaphthalene	ND	250	ug/Kg
Pyridine	ND	250	ug/Kg
N-Nitrosodimethylamine	ND	250	ug/Kg
Phenol	ND	250	ug/Kg
Aniline	ND	250	ug/Kg
bis(2-Chloroethyl)ether	ND	1,200	ug/Kg
2-Chlorophenol	ND	250	ug/Kg
1,3-Dichlorobenzene	ND	250	ug/Kg
1,4-Dichlorobenzene	ND	250	ug/Kg
Benzyl alcohol	ND	250	ug/Kg
1,2-Dichlorobenzene	ND	250	ug/Kg
2-Methylphenol	ND	250	ug/Kg
bis(2-Chloroisopropyl) ether	ND	250	ug/Kg
3-,4-Methylphenol	ND	400	ug/Kg
N-Nitroso-di-n-propylamine	ND	250	ug/Kg
Hexachloroethane	ND	250	ug/Kg
Nitrobenzene	ND	1,200	ug/Kg
Isophorone	ND	250	ug/Kg
2-Nitrophenol	ND	250	ug/Kg
2,4-Dimethylphenol	ND	250	ug/Kg
Benzoic acid	ND	1,200	ug/Kg
bis(2-Chloroethoxy)methane	ND	250	ug/Kg
2,4-Dichlorophenol	ND	250	ug/Kg
1,2,4-Trichlorobenzene	ND	250	ug/Kg
Naphthalene	ND	250	ug/Kg
4-Chloroaniline	ND	250	ug/Kg
Hexachlorobutadiene	ND	250	ug/Kg
4-Chloro-3-methylphenol	ND	250	ug/Kg
2-Methylnaphthalene	ND	250	ug/Kg
Hexachlorocyclopentadiene	ND	1,200	ug/Kg
2,4,6-Trichlorophenol	ND	250	ug/Kg
2,4,5-Trichlorophenol	ND	250	ug/Kg
2-Chloronaphthalene	ND	250	ug/Kg
2-Nitroaniline	ND	250	ug/Kg
Dimethylphthalate	ND	250	ug/Kg
Acenaphthylene	ND	250	ug/Kg
2,6-Dinitrotoluene	ND	250	ug/Kg
3-Nitroaniline	ND	250	ug/Kg
Acenaphthene	ND	250	ug/Kg
2,4-Dinitrophenol	ND	1,200	ug/Kg

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Analyte	Result	RL	Units
4-Nitrophenol	ND	250	ug/Kg
Dibenzofuran	ND	250	ug/Kg
2,4-Dinitrotoluene	ND	250	ug/Kg
Diethylphthalate	ND	250	ug/Kg
Fluorene	ND	250	ug/Kg
4-Chlorophenyl-phenylether	ND	250	ug/Kg
4-Nitroaniline	ND	250	ug/Kg
4,6-Dinitro-2-methylphenol	ND	250	ug/Kg
N-Nitrosodiphenylamine	ND	250	ug/Kg
1,2-diphenylhydrazine (as azobenzene)	ND	250	ug/Kg
4-Bromophenyl-phenylether	ND	250	ug/Kg
Hexachlorobenzene	ND	250	ug/Kg
Pentachlorophenol	ND	1,200	ug/Kg
Phenanthrene	ND	250	ug/Kg
Anthracene	ND	250	ug/Kg
Di-n-butylphthalate	ND	250	ug/Kg
Fluoranthene	ND	250	ug/Kg
Benzidine	ND	1,200	ug/Kg
Pyrene	ND	250	ug/Kg
Butylbenzylphthalate	ND	250	ug/Kg
3,3'-Dichlorobenzidine	ND	1,200	ug/Kg
Benzo(a)anthracene	ND	250	ug/Kg
Chrysene	ND	250	ug/Kg
bis(2-Ethylhexyl)phthalate	ND	250	ug/Kg
Di-n-octylphthalate	ND	250	ug/Kg
Benzo(b)fluoranthene	ND	250	ug/Kg
Benzo(k)fluoranthene	ND	250	ug/Kg
Benzo(a)pyrene	ND	250	ug/Kg
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg
Dibenz(a,h)anthracene	ND	250	ug/Kg
Benzo(g,h,i)perylene	ND	250	ug/Kg
Surrogate	%REC	Limits	
2-Fluorophenol	60	29-120	
Phenol-d6	62	30-120	
2,4,6-Tribromophenol	54	32-120	
Nitrobenzene-d5	59	33-120	
2-Fluorobiphenyl	58	39-120	
Terphenyl-d14	62	44-125	

Legend

ND: Not Detected

RL: Reporting Limit

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266824	Analysis: EPA 8270C
Lab ID: QC924143	Prepared: 05/10/21	Analyst: DJL
Matrix: Soil	Analyzed: 05/10/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Spiked	Result	%REC	Limits	Units
Phenol	2,000	1,143	57	42-120	ug/Kg
2-Chlorophenol	2,000	1,149	57	41-120	ug/Kg
1,4-Dichlorobenzene	2,000	1,142	57	36-120	ug/Kg
3-,4-Methylphenol	2,000	1,207	60	42-120	ug/Kg
N-Nitroso-di-n-propylamine	2,000	1,164	58	43-121	ug/Kg
2,4-Dimethylphenol	2,000	1,171	59	25-120	ug/Kg
1,2,4-Trichlorobenzene	2,000	1,205	60	38-120	ug/Kg
4-Chloro-3-methylphenol	2,000	1,210	61	40-125	ug/Kg
2,4,5-Trichlorophenol	2,000	1,251	63	40-124	ug/Kg
Acenaphthene	2,000	1,174	59	35-126	ug/Kg
4-Nitrophenol	2,000	1,138	57	24-128	ug/Kg
2,4-Dinitrotoluene	2,000	1,262	63	40-131	ug/Kg
Pentachlorophenol	2,000	1,007	50	35-120	ug/Kg
Pyrene	2,000	1,175	59	37-135	ug/Kg
Chrysene	2,000	1,260	63	38-132	ug/Kg
Benzo(b)fluoranthene	2,000	1,396	70	38-135	ug/Kg
Surrogate			%REC	Limits	
2-Fluorophenol			55	29-120	
Phenol-d6			57	30-120	
2,4,6-Tribromophenol			64	32-120	
Nitrobenzene-d5			58	33-120	
2-Fluorobiphenyl			60	39-120	
Terphenyl-d14			59	44-125	

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: <u>ZZZZZZZZZZ</u>	Basis: as received	Prepared: 05/10/21
Type: MS	Diln Fac: 10.00	Analyzed: 05/10/21
MSS Lab ID: 445035-007	Batch#: 266824	Prep: EPA 3546
Lab ID: QC924144	Sampled: 05/05/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/05/21	Analyst: DJL

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Phenol	<850.0	2,000	726.7	0 *	37-120	ug/Kg
2-Chlorophenol	<650.0	2,000	808.6	40	33-120	ug/Kg
1,4-Dichlorobenzene	<760.0	2,000	657.6	0 *	32-120	ug/Kg
3-,4-Methylphenol	<890.0	2,000	821.2	0 *	37-120	ug/Kg
N-Nitroso-di-n-propylamine	<970.0	2,000	713.9	0 *	32-120	ug/Kg
2,4-Dimethylphenol	<860.0	2,000	558.9	0 *	32-120	ug/Kg
1,2,4-Trichlorobenzene	<660.0	2,000	790.3	40	33-120	ug/Kg
4-Chloro-3-methylphenol	<540.0	2,000	753.4	38 *	41-121	ug/Kg
2,4,5-Trichlorophenol	<620.0	2,000	873.7	DO	40-120	ug/Kg
Acenaphthene	<690.0	2,000	1,210	61	37-120	ug/Kg
4-Nitrophenol	<1,000	2,000	1,855	DO	20-141	ug/Kg
2,4-Dinitrotoluene	<660.0	2,000	812.3	41	33-128	ug/Kg
Pentachlorophenol	<1,420	2,000	2,831	DO	28-132	ug/Kg
Pyrene	2,790	2,000	3,294	25 *	39-135	ug/Kg
Chrysene	1,376	2,000	2,128	38	37-135	ug/Kg
Benzo(b)fluoranthene	831.9	2,000	1,802	48	34-139	ug/Kg

Surrogate	%REC	Limits
2-Fluorophenol	31	29-120
Phenol-d6	42	30-120
2,4,6-Tribromophenol	44	32-120
Nitrobenzene-d5	39	33-120
2-Fluorobiphenyl	43	39-120
Terphenyl-d14	50	44-125

EPA 8270 Semi-Volatile Organics: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/10/21
Type: MSD	Diln Fac: 10.00	Analyzed: 05/10/21
MSS Lab ID: 445035-007	Batch#: 266824	Prep: EPA 3546
Lab ID: QC924145	Sampled: 05/05/21	Analysis: EPA 8270C
Matrix: Soil	Received: 05/05/21	Analyst: DJL

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Phenol	2,000	580.3	0 *	37-120	ug/Kg	22	49
2-Chlorophenol	2,000	580.3	0 *	33-120	ug/Kg	33	52
1,4-Dichlorobenzene	2,000	664.2	0 *	32-120	ug/Kg	1	50
3-,4-Methylphenol	2,000	646.5	0 *	37-120	ug/Kg	24	54
N-Nitroso-di-n-propylamine	2,000	519.0	0 *	32-120	ug/Kg	32	50
2,4-Dimethylphenol	2,000	547.8	0 *	32-120	ug/Kg	2	50
1,2,4-Trichlorobenzene	2,000	621.2	0 *	33-120	ug/Kg	24	50
4-Chloro-3-methylphenol	2,000	634.0	32 *	41-121	ug/Kg	17	43
2,4,5-Trichlorophenol	2,000	660.2	DO	40-120	ug/Kg	NC	47
Acenaphthene	2,000	723.5	36 *	37-120	ug/Kg	50 *	48
4-Nitrophenol	2,000	1,792	DO	20-141	ug/Kg	NC	30
2,4-Dinitrotoluene	2,000	704.0	35	33-128	ug/Kg	14	50
Pentachlorophenol	2,000	2,781	DO	28-132	ug/Kg	NC	30
Pyrene	2,000	1,166	-81 *	39-135	ug/Kg	95 *	41
Chrysene	2,000	1,123	-13 *	37-135	ug/Kg	62 *	46
Benzo(b)fluoranthene	2,000	1,060	11 *	34-139	ug/Kg	52 *	47

Surrogate	%REC	Limits
2-Fluorophenol	25 *	29-120
Phenol-d6	25 *	30-120
2,4,6-Tribromophenol	22 *	32-120
Nitrobenzene-d5	24 *	33-120
2-Fluorobiphenyl	28 *	39-120
Terphenyl-d14	34 *	44-125

Legend

*: Value is outside QC limits

DO: Diluted Out

NC: Not Calculated

RPD: Relative Percent Difference

Organochlorine Pesticides

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-001	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	61	23-120
Decachlorobiphenyl	60	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL 01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-002	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	64	23-120
Decachlorobiphenyl	87	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5B-SOIL 01	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-003	Sampled: 04/29/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	
Diln Fac: 1.000	Analyzed: 05/06/21	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	63	23-120
Decachlorobiphenyl	63	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266559	Analysis: EPA 8081A
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

Surrogate	%REC	Limits
TCMX	54	23-120
Decachlorobiphenyl	55	24-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 266559

Analysis: EPA 8081A

Lab ID: QC923377

Prepared: 05/05/21

Analyst: KTD

Matrix: Soil

Analyzed: 05/05/21

Diln Fac: 1.000

Prep: EPA 3546

Analyte	Spiked	Result	%REC	Limits	Units
alpha-BHC	50.00	31.96	64	22-129	ug/Kg
beta-BHC	50.00	32.55	65	28-125	ug/Kg
gamma-BHC	50.00	32.43	65	22-128	ug/Kg
delta-BHC	50.00	32.37	65	24-131	ug/Kg
Heptachlor	50.00	32.34	65	18-124	ug/Kg
Aldrin	50.00	29.48	59	23-120	ug/Kg
Heptachlor epoxide	50.00	29.50	59	26-120	ug/Kg
Endosulfan I	50.00	32.44	65	25-126	ug/Kg
Dieldrin	50.00	32.14	64	23-124	ug/Kg
4,4'-DDE	50.00	31.77	64	28-121	ug/Kg
Endrin	50.00	32.89	66	25-127	ug/Kg
Endosulfan II	50.00	32.45	65	29-121	ug/Kg
Endosulfan sulfate	50.00	31.51	63	30-121	ug/Kg
4,4'-DDD	50.00	29.20	58	26-120	ug/Kg
Endrin aldehyde	50.00	21.32	43	10-120	ug/Kg
Endrin ketone	50.00	30.33	61	28-125	ug/Kg
4,4'-DDT	50.00	33.70	67	22-125	ug/Kg
Methoxychlor	50.00	34.76	70	28-130	ug/Kg
Surrogate			%REC	Limits	
TCMX			60	23-120	
Decachlorobiphenyl			61	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444721		Project#: 211283001				
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord				
Field ID: ZZZZZZZZZZ		Basis: as received		Prepared: 05/05/21		
Type: MS		Diln Fac: 1.000		Analyzed: 05/05/21		
MSS Lab ID: 444731-001		Batch#: 266559		Prep: EPA 3546		
Lab ID: QC923378		Sampled: 04/22/21		Analysis: EPA 8081A		
Matrix: Soil		Received: 04/30/21		Analyst: KTD		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
alpha-BHC	<1.600	50.00	29.92	60	46-120	ug/Kg
beta-BHC	<1.500	50.00	29.08	58	41-120	ug/Kg
gamma-BHC	<2.000	50.00	30.42	61	41-120	ug/Kg
delta-BHC	<1.200	50.00	32.31	65	38-123	ug/Kg
Heptachlor	<1.300	50.00	26.32	53	39-120	ug/Kg
Aldrin	<1.500	50.00	28.21	56	34-120	ug/Kg
Heptachlor epoxide	<2.300	50.00	26.58	53	43-120	ug/Kg
Endosulfan I	<1.200	50.00	28.35	57	45-120	ug/Kg
Dieldrin	<2.100	50.00	28.19	56	45-120	ug/Kg
4,4'-DDE	5.593	50.00	28.74	46	34-120	ug/Kg
Endrin	<2.700	50.00	25.25	51	40-120	ug/Kg
Endosulfan II	<2.800	50.00	28.60	57	41-120	ug/Kg
Endosulfan sulfate	<3.400	50.00	28.02	56	42-120	ug/Kg
4,4'-DDD	<2.100	50.00	25.88	52	41-120	ug/Kg
Endrin aldehyde	<2.100	50.00	21.81	44	30-120	ug/Kg
Endrin ketone	<4.100	50.00	30.40	61	45-120	ug/Kg
4,4'-DDT	<2.000	50.00	30.72	61	35-127	ug/Kg
Methoxychlor	<9.200	50.00	31.27	63	42-136	ug/Kg
Surrogate				%REC	Limits	
TCMX				52	23-120	
Decachlorobiphenyl				52	24-120	

Organochlorine Pesticides: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923379	Sampled: 04/22/21	Analysis: EPA 8081A
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
alpha-BHC	50.00	26.03	52	46-120	ug/Kg	14	30
beta-BHC	50.00	26.06	52	41-120	ug/Kg	11	30
gamma-BHC	50.00	27.07	54	41-120	ug/Kg	12	30
delta-BHC	50.00	28.63	57	38-123	ug/Kg	12	30
Heptachlor	50.00	23.65	47	39-120	ug/Kg	11	30
Aldrin	50.00	25.07	50	34-120	ug/Kg	12	30
Heptachlor epoxide	50.00	23.95	48	43-120	ug/Kg	10	30
Endosulfan I	50.00	25.82	52	45-120	ug/Kg	9	30
Dieldrin	50.00	24.26	49	45-120	ug/Kg	15	30
4,4'-DDE	50.00	26.17	41	34-120	ug/Kg	9	30
Endrin	50.00	18.27	37 *	40-120	ug/Kg	32 *	30
Endosulfan II	50.00	26.12	52	41-120	ug/Kg	9	30
Endosulfan sulfate	50.00	24.97	50	42-120	ug/Kg	11	30
4,4'-DDD	50.00	25.50	51	41-120	ug/Kg	1	30
Endrin aldehyde	50.00	20.61	41	30-120	ug/Kg	6	30
Endrin ketone	50.00	32.75	65	45-120	ug/Kg	7	30
4,4'-DDT	50.00	27.75	56	35-127	ug/Kg	10	30
Methoxychlor	50.00	28.64	57	42-136	ug/Kg	9	30

Surrogate	%REC	Limits
TCMX	48	23-120
Decachlorobiphenyl	48	24-120

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5-SOIL 01	Diln Fac: 1.000	Analyzed: 05/06/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-001	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	230	20	ug/Kg
Surrogate	%REC		Limits
Decachlorobiphenyl (PCB)	55		19-121

Field ID: 5A-SOIL 01	Diln Fac: 1.000	Analyzed: 05/06/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-002	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate	%REC		Limits
Decachlorobiphenyl (PCB)	60		19-121

Polychlorinated Biphenyls (PCBs)

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5B-SOIL 01	DiIn Fac: 1.000	Analyzed: 05/06/21
Type: SAMPLE	Batch#: 266559	Prep: EPA 3546
Lab ID: 444721-003	Sampled: 04/29/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD
Basis: as received	Prepared: 05/05/21	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		58	19-121

Type: BLANK	Batch#: 266559	Analysis: EPA 8082
Lab ID: QC923376	Prepared: 05/05/21	Analyst: KTD
Matrix: Soil	Analyzed: 05/05/21	
DiIn Fac: 1.000	Prep: EPA 3546	

Analyte	Result	RL	Units
Aroclor-1016	ND	50	ug/Kg
Aroclor-1221	ND	24	ug/Kg
Aroclor-1232	ND	20	ug/Kg
Aroclor-1242	ND	20	ug/Kg
Aroclor-1248	ND	20	ug/Kg
Aroclor-1254	ND	20	ug/Kg
Aroclor-1260	ND	25	ug/Kg
Surrogate		%REC	Limits
Decachlorobiphenyl (PCB)		52	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444721		Project#: 211283001			
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord			
Type: LCS		Batch#: 266559		Analysis: EPA 8082	
Lab ID: QC923380		Prepared: 05/05/21		Analyst: KTD	
Matrix: Soil		Analyzed: 05/05/21			
Diln Fac: 1.000		Prep: EPA 3546			
Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	500.0	336.9	67	14-150	ug/Kg
Aroclor-1260	500.0	339.4	68	10-150	ug/Kg
Surrogate			%REC	Limits	
Decachlorobiphenyl (PCB)			59	19-121	

Polychlorinated Biphenyls (PCBs): Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923381	Sampled: 04/22/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Aroclor-1016	<3.000	500.0	294.7	59	42-127	ug/Kg
Aroclor-1260	20.38	500.0	310.9	58	38-130	ug/Kg

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	59	19-121

Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444731-001	Batch#: 266559	Prep: EPA 3546
Lab ID: QC923382	Sampled: 04/22/21	Analysis: EPA 8082
Matrix: Soil	Received: 04/30/21	Analyst: KTD

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	500.0	310.5	62	42-127	ug/Kg	5	30
Aroclor-1260	500.0	329.9	62	38-130	ug/Kg	6	30

Surrogate	%REC	Limits
Decachlorobiphenyl (PCB)	63	19-121

Legend

RPD: Relative Percent Difference

California Title 22 Metals

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5-SOIL 01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444721-001

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.1	1.0	0.68	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	22	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.51		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.51		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	11	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	1.9	0.51		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	3.3	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	8.1	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	0.26	0.14		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	7.6	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	3.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.51		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	3.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	8.7	1.0		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	25	5.1		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5A-SOIL 01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444721-002

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.0	0.85	0.57	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	36	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.42		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.42		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	11	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	260	0.42		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	80	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	3.7	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.14		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	30	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	2.5		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.42		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	2.5		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	0.85		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	17	4.2		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 444721

Project#: 211283001

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5B-SOIL 01

Matrix: Soil

Diln Fac: 1.000

Received: 04/30/21

Lab ID: 444721-003

Basis: as received

Sampled: 04/29/21

Prepared: 05/05/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Arsenic	1.3	0.98	0.66	mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Barium	19	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Beryllium	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cadmium	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Chromium	11	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Cobalt	200	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Copper	52	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Lead	1.2	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Mercury	ND	0.15		mg/Kg	266563	05/06/21	METHOD	EPA 7471A	JDB
Molybdenum	ND	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Nickel	45	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Selenium	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Silver	ND	0.49		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Thallium	ND	2.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Vanadium	12	0.98		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW
Zinc	11	4.9		mg/Kg	266545	05/05/21	EPA 3050B	EPA 6010B	SBW

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 266545	Analysis: EPA 6010B
Lab ID: QC923337	Prepared: 05/05/21	Analyst: SBW
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266545	Analysis: EPA 6010B
Lab ID: QC923338	Prepared: 05/05/21	Analyst: SBW
Matrix: Soil	Analyzed: 05/05/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.90	99	80-120	mg/Kg
Arsenic	100.0	99.43	99	80-120	mg/Kg
Barium	100.0	98.31	98	80-120	mg/Kg
Beryllium	100.0	94.99	95	80-120	mg/Kg
Cadmium	100.0	95.29	95	80-120	mg/Kg
Chromium	100.0	97.58	98	80-120	mg/Kg
Cobalt	100.0	102.3	102	80-120	mg/Kg
Copper	100.0	95.65	96	80-120	mg/Kg
Lead	100.0	103.7	104	80-120	mg/Kg
Molybdenum	100.0	98.87	99	80-120	mg/Kg
Nickel	100.0	100.8	101	80-120	mg/Kg
Selenium	100.0	86.06	86	80-120	mg/Kg
Silver	50.00	45.81	92	80-120	mg/Kg
Thallium	100.0	99.43	99	80-120	mg/Kg
Vanadium	100.0	101.2	101	80-120	mg/Kg
Zinc	100.0	103.7	104	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923339	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.553	93.46	43.83	47 *	75-125	mg/Kg
Arsenic	2.768	93.46	93.68	97	75-125	mg/Kg
Barium	149.6	93.46	202.2	56 *	75-125	mg/Kg
Beryllium	0.08619	93.46	85.73	92	75-125	mg/Kg
Cadmium	0.4662	93.46	87.59	93	75-125	mg/Kg
Chromium	33.01	93.46	117.3	90	75-125	mg/Kg
Cobalt	4.170	93.46	96.33	99	75-125	mg/Kg
Copper	14.80	93.46	111.0	103	75-125	mg/Kg
Lead	181.3	93.46	210.4	31 *	75-125	mg/Kg
Molybdenum	<0.5728	93.46	87.06	93	75-125	mg/Kg
Nickel	15.37	93.46	103.0	94	75-125	mg/Kg
Selenium	<1.748	93.46	80.28	86	75-125	mg/Kg
Silver	<0.1553	46.73	41.48	89	75-125	mg/Kg
Thallium	<1.068	93.46	88.50	95	75-125	mg/Kg
Vanadium	17.27	93.46	109.5	99	75-125	mg/Kg
Zinc	194.9	93.46	256.6	66 *	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/05/21
MSS Lab ID: 444715-001	Batch#: 266545	Prep: EPA 3050B
Lab ID: QC923340	Sampled: 04/29/21	Analysis: EPA 6010B
Matrix: Soil	Received: 04/30/21	Analyst: SBW

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	46.31	47 *	75-125	mg/Kg	1	41
Arsenic	98.04	101.7	101	75-125	mg/Kg	4	35
Barium	98.04	213.7	65 *	75-125	mg/Kg	4	20
Beryllium	98.04	90.62	92	75-125	mg/Kg	1	20
Cadmium	98.04	95.42	97	75-125	mg/Kg	4	20
Chromium	98.04	126.2	95	75-125	mg/Kg	4	20
Cobalt	98.04	99.09	97	75-125	mg/Kg	2	20
Copper	98.04	108.9	96	75-125	mg/Kg	6	20
Lead	98.04	256.1	76	75-125	mg/Kg	18	20
Molybdenum	98.04	93.64	96	75-125	mg/Kg	2	20
Nickel	98.04	108.9	95	75-125	mg/Kg	1	20
Selenium	98.04	87.23	89	75-125	mg/Kg	4	20
Silver	49.02	44.97	92	75-125	mg/Kg	3	20
Thallium	98.04	95.20	97	75-125	mg/Kg	3	20
Vanadium	98.04	114.9	100	75-125	mg/Kg	1	20
Zinc	98.04	276.1	83	75-125	mg/Kg	6	20

California Title 22 Metals: Batch QC**Lab #:** 444721**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC**Lab #:** 444721**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** BLANK**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923394**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 444721**Project#:** 211283001**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 266563**Analysis:** EPA 7471A**Lab ID:** QC923395**Prepared:** 05/05/21**Analyst:** JDB**Matrix:** Soil**Analyzed:** 05/06/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8069	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MS	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923396	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	0.2059	0.9615	1.097	93	75-125	mg/Kg

Field ID: 1-SOIL 01	Basis: as received	Prepared: 05/05/21
Type: MSD	Diln Fac: 1.000	Analyzed: 05/06/21
MSS Lab ID: 444715-001	Batch#: 266563	Prep: METHOD
Lab ID: QC923397	Sampled: 04/29/21	Analysis: EPA 7471A
Matrix: Soil	Received: 04/30/21	Analyst: JDB

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	1.000	1.166	96	75-125	mg/Kg	3	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 444721	Project#: 211283001
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord

Field ID: 5-SOIL 01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A
Lab ID: 444721-001	Sampled: 04/29/21 08:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP
Basis: as received	Prepared: 05/11/21 11:50	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5A-SOIL 01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A
Lab ID: 444721-002	Sampled: 04/29/21 08:30	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP
Basis: as received	Prepared: 05/11/21 11:50	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5B-SOIL 01	Diln Fac: 1.000	Analyzed: 05/11/21 16:14
Type: SAMPLE	Batch#: 266848	Prep: EPA 3060A
Lab ID: 444721-003	Sampled: 04/29/21 09:30	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP
Basis: as received	Prepared: 05/11/21 11:50	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 266848	Analysis: EPA 7196A
Lab ID: QC924217	Prepared: 05/11/21 11:50	Analyst: ATP
Matrix: Soil	Analyzed: 05/11/21 16:14	
Diln Fac: 1.000	Prep: EPA 3060A	

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 444721	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 266848	Analysis: EPA 7196A
Lab ID: QC924218	Prepared: 05/11/21 11:50	Analyst: ATP
Matrix: Soil	Analyzed: 05/11/21 16:14	
Diln Fac: 5.000	Prep: EPA 3060A	

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.17	105	80-120	mg/Kg

Field ID: 5-SOIL 01	Basis: as received	Prepared: 05/11/21 11:50
Type: MS	Diln Fac: 5.000	Analyzed: 05/11/21 16:14
MSS Lab ID: 444721-001	Batch#: 266848	Prep: EPA 3060A
Lab ID: QC924219	Sampled: 04/29/21 08:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	35.59	89	75-125	mg/Kg

Field ID: 5-SOIL 01	Basis: as received	Prepared: 05/11/21 11:50
Type: MSD	Diln Fac: 5.000	Analyzed: 05/11/21 16:14
MSS Lab ID: 444721-001	Batch#: 266848	Prep: EPA 3060A
Lab ID: QC924220	Sampled: 04/29/21 08:00	Analysis: EPA 7196A
Matrix: Soil	Received: 04/30/21	Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	36.27	91	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447836
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447836
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/12/21

Sample ID	Lab ID	Collected	Matrix
3-SOIL-03	447836-001	07/09/21 08:30	Soil
3-SOIL-04	447836-002	07/09/21 09:00	Soil
3-SOIL-05	447836-003	07/09/21 09:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447836
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 07/12/21. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 3-SOIL-03 (lab # 447836-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447836
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

Sample ID: 3-SOIL-03

Lab ID: 447836-001

Collected: 07/09/21 08:30

Matrix: Soil

447836-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.0		mg/Kg	0.95	0.64
Barium	29		mg/Kg	0.95	
Chromium	12		mg/Kg	0.95	
Cobalt	1.8		mg/Kg	0.48	
Copper	3.5		mg/Kg	0.95	
Lead	4.9		mg/Kg	0.95	
Nickel	10		mg/Kg	0.95	
Vanadium	9.9		mg/Kg	0.95	
Zinc	14		mg/Kg	4.8	

Sample ID: 3-SOIL-04

Lab ID: 447836-002

Collected: 07/09/21 09:00

Matrix: Soil

447836-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.0		mg/Kg	0.98	0.66
Barium	33		mg/Kg	0.98	
Chromium	12		mg/Kg	0.98	
Cobalt	2.0		mg/Kg	0.49	
Copper	2.9		mg/Kg	0.98	
Lead	6.1		mg/Kg	0.98	
Nickel	7.9		mg/Kg	0.98	
Vanadium	9.9		mg/Kg	0.98	
Zinc	10		mg/Kg	4.9	
Method: EPA 7196A					
Prep Method: EPA 3060A					
Hexavalent Chromium	6.7		mg/Kg	0.80	0.26

Detection Summary

Sample ID: 3-SOIL-05
Lab ID: 447836-003
Collected: 07/09/21 09:30
Matrix: Soil
447836-003 Analyte

Method: EPA 6010B

Prep Method: EPA 3050B

	Result	Qual	Units	RL	MDL
Arsenic	1.4		mg/Kg	1.0	0.68
Barium	27		mg/Kg	1.0	
Chromium	12		mg/Kg	1.0	
Cobalt	1.8		mg/Kg	0.51	
Copper	3.0		mg/Kg	1.0	
Lead	4.8		mg/Kg	1.0	
Nickel	7.2		mg/Kg	1.0	
Vanadium	10		mg/Kg	1.0	
Zinc	8.7		mg/Kg	5.1	

ENTHALPY ANALYTICAL Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Chain of Custody Record Lab No: <u>447836</u> Page: <u>1</u> of <u>1</u>		Turn Around Time (rush by advanced notice only) Standard: 5 Day: 3 Day: X 2 Day: 1 Day: Custom TAT:			
		Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = (lab use only)					
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request		Test Instructions / Comments	
Company:	Vista Environmental Consulting	Name:	City of Seaside -Former Fort Ord				
Report To:	Chris Burns/Aleshia Washington	Number:	211283002				
Email:	chrisburns@vista-env.com	P.O. #:					
Address:	2984 Teagarden Street	Address:					
	San Leandro, Ca 94577						
Phone:	510-346-8860	Global ID:					
Fax:	aleshia.washington@vista-env.com	Sampled By:	C. Burns				
Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.		
1 3-Soil-03	7/9/21	0830	Soil	1	ICE	CAM 17 Metals Method 6010B/7471A Hexavalent Chromium Method 7196A Lead, Strontium, Tl, Pb	
2 3-Soil-04	7/9/21	0900	Soil	1	ICE		
3 3-Soil-05	7/9/21	0930	Soil	1	ICE		
4							
5							
6							
7							
8							
9							
10							
Signature		Print Name		Company / Title		Date / Time	
1 Relinquished By:		Chris Burns		Vista		07/09/21 11:30	
1 Received By:		Jonathan Roche		Vista		7/11/21 1326	
2 Relinquished By:		Jonathan Roche		Vista		7/12/21 0223	
2 Received By:		E.A.		E.A.		7/12/21 0223	
3 Relinquished By:		E.A.		E.A.		7/12/21 1300	
3 Received By:		E.A.		E.A.		7/13/21 10:18	

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 447836
Date Received: 7/12/21

Client: Vista
Project: _____



Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (skip Section 3 below)

If no cooler Sample Temp (°C): 18.1 using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/12/21 By (print) mtc (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

Were custody papers dry, filled out properly, and the project identifiable

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time

Date Logged in 7/12/21

By (print) mtc for zia

(sign) [Signature]

Date Labeled 7/12/21

By (print) mtc

(sign) [Signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Vista Environmental Consulting Project: City of Seaside - Former Fort Ord
 Date Received: 07/13/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2
 Sample(s) received in a cooler? ☒ Yes, How many? 1 ☒ No (skip section 2) Sample Temp (°C) (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 5.9 #2: _____ #3: _____ #4: _____
 (Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____
 Cooler Temp (°C): #1: 1.0 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____
 Project Manager's response:

Completed By: Deanne Sylvester Date: 7/13/21

7/12/2021



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553944184

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

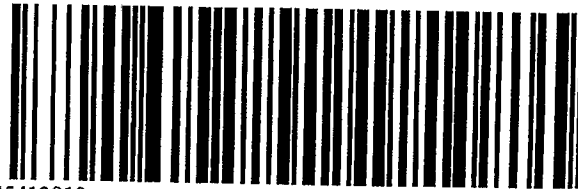
ORANGE

S10003H

COD: \$0.00

Weight: 0 lb(s)

Reference:



45413819

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-EH1

Package 3 of 6

Print Date: 7/12/2021 11:56 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.2/1.0 (3) 10.18

California Title 22 Metals

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447836-001

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.0	0.95	0.64	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	29	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.8	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	3.5	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	4.9	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	10	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.9	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	14	4.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447836-002

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.0	0.98	0.66	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	33	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.49		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.49		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.0	0.49		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.9	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	6.1	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	7.9	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.49		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.9	0.98		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	10	4.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447836					Project#: 211283002				
Client: Vista Environmental					Location: City of Seaside - Former Fort Ord				
Field ID: 3-SOIL-05		Matrix: Soil		Diln Fac: 1.000		Received: 07/12/21			
Lab ID: 447836-003		Basis: as received		Sampled: 07/09/21		Prepared: 07/13/21			
Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	1.0	0.68	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	27	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.8	0.51		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	3.0	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	4.8	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	7.2	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	10	1.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.7	5.1		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447836	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 270440	Analysis: EPA 6010B
Lab ID: QC933971	Prepared: 07/13/21	Analyst: KLN
Matrix: Soil	Analyzed: 07/15/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447836	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270440	Analysis: EPA 6010B
Lab ID: QC933972	Prepared: 07/13/21	Analyst: KLN
Matrix: Soil	Analyzed: 07/15/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.45	98	80-120	mg/Kg
Arsenic	100.0	95.65	96	80-120	mg/Kg
Barium	100.0	101.3	101	80-120	mg/Kg
Beryllium	100.0	98.30	98	80-120	mg/Kg
Cadmium	100.0	109.0	109	80-120	mg/Kg
Chromium	100.0	98.19	98	80-120	mg/Kg
Cobalt	100.0	105.5	106	80-120	mg/Kg
Copper	100.0	100.6	101	80-120	mg/Kg
Lead	100.0	100.7	101	80-120	mg/Kg
Molybdenum	100.0	92.60	93	80-120	mg/Kg
Nickel	100.0	104.7	105	80-120	mg/Kg
Selenium	100.0	95.83	96	80-120	mg/Kg
Silver	50.00	49.17	98	80-120	mg/Kg
Thallium	100.0	104.8	105	80-120	mg/Kg
Vanadium	100.0	97.91	98	80-120	mg/Kg
Zinc	100.0	114.6	115	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447836	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933973	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.524	93.46	42.85	46 *	75-125	mg/Kg
Arsenic	2.010	93.46	89.56	94	75-125	mg/Kg
Barium	29.29	93.46	121.2	98	75-125	mg/Kg
Beryllium	0.1810	93.46	93.74	100	75-125	mg/Kg
Cadmium	0.1905	93.46	95.79	102	75-125	mg/Kg
Chromium	12.28	93.46	97.01	91	75-125	mg/Kg
Cobalt	1.848	93.46	92.24	97	75-125	mg/Kg
Copper	3.543	93.46	97.48	101	75-125	mg/Kg
Lead	4.943	93.46	95.42	97	75-125	mg/Kg
Molybdenum	<0.5619	93.46	82.22	88	75-125	mg/Kg
Nickel	10.28	93.46	100.8	97	75-125	mg/Kg
Selenium	<1.714	93.46	91.63	98	75-125	mg/Kg
Silver	0.2286	46.73	42.99	92	75-125	mg/Kg
Thallium	<1.048	93.46	93.74	100	75-125	mg/Kg
Vanadium	9.924	93.46	96.82	93	75-125	mg/Kg
Zinc	14.43	93.46	114.9	107	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933974	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	84.03	39.08	47 *	75-125	mg/Kg	1	41
Arsenic	84.03	83.61	97	75-125	mg/Kg	4	35
Barium	84.03	118.5	106	75-125	mg/Kg	6	20
Beryllium	84.03	84.12	100	75-125	mg/Kg	0	20
Cadmium	84.03	90.08	107	75-125	mg/Kg	4	20
Chromium	84.03	93.61	97	75-125	mg/Kg	6	20
Cobalt	84.03	86.81	101	75-125	mg/Kg	4	20
Copper	84.03	88.07	101	75-125	mg/Kg	0	20
Lead	84.03	88.66	100	75-125	mg/Kg	3	20
Molybdenum	84.03	76.61	91	75-125	mg/Kg	4	20
Nickel	84.03	98.40	105	75-125	mg/Kg	7	20
Selenium	84.03	84.12	100	75-125	mg/Kg	2	20
Silver	42.02	40.49	96	75-125	mg/Kg	5	20
Thallium	84.03	86.97	104	75-125	mg/Kg	3	20
Vanadium	84.03	93.11	99	75-125	mg/Kg	6	20
Zinc	84.03	107.6	111	75-125	mg/Kg	3	20

California Title 22 Metals: Batch QC**Lab #:** 447836**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 447836	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 270481	Analysis: EPA 7471A
Lab ID: QC934081	Prepared: 07/13/21	Analyst: TNN
Matrix: Soil	Analyzed: 07/14/21	
Diln Fac: 1.000	Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447836**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270481**Analysis:** EPA 7471A**Lab ID:** QC934082**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8448	101	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447836		Project#: 211283002					
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord					
Field ID: 3-SOIL-03		Basis: as received			Prepared: 07/13/21		
Type: MS		Diln Fac: 1.000			Analyzed: 07/14/21		
MSS Lab ID: 447836-001		Batch#: 270481			Prep: METHOD		
Lab ID: QC934083		Sampled: 07/09/21			Analysis: EPA 7471A		
Matrix: Soil		Received: 07/12/21			Analyst: TNN		
Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	
Mercury	<0.04414	0.9804	0.9458	96	75-125	mg/Kg	
Field ID: 3-SOIL-03		Basis: as received			Prepared: 07/13/21		
Type: MSD		Diln Fac: 1.000			Analyzed: 07/14/21		
MSS Lab ID: 447836-001		Batch#: 270481			Prep: METHOD		
Lab ID: QC934084		Sampled: 07/09/21			Analysis: EPA 7471A		
Matrix: Soil		Received: 07/12/21			Analyst: TNN		
Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8475	0.8296	98	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 3-SOIL-03

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447836-001

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 3-SOIL-04

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447836-002

Sampled: 07/09/21 09:00

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	6.7	0.80	0.26	mg/Kg

Field ID: 3-SOIL-05

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447836-003

Sampled: 07/09/21 09:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934467

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447836

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934468

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MS

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934469

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MSD

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934470

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447837
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447837
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/12/21

Sample ID	Lab ID	Collected	Matrix
1-SOIL-03	447837-001	07/09/21 10:00	Soil
1-SOIL-04	447837-002	07/09/21 10:15	Soil
1-SOIL-05	447837-003	07/09/21 10:30	Soil
1-SOIL-06	447837-004	07/09/21 10:45	Soil
1-SOIL-07	447837-005	07/09/21 11:00	Soil
1-SOIL-08	447837-006	07/09/21 11:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447837
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

This data package contains sample and QC results for six soil samples, requested for the above referenced project on 07/12/21. The samples were received intact.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 3-SOIL-03 (lab # 447836-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447837
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

Sample ID: 1-SOIL-03

Lab ID: 447837-001

Collected: 07/09/21 10:00

Matrix: Soil

447837-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.8		mg/Kg	0.94	0.63
Barium	55		mg/Kg	0.94	
Chromium	19		mg/Kg	0.94	
Cobalt	2.4		mg/Kg	0.47	
Copper	6.5		mg/Kg	0.94	
Lead	36		mg/Kg	0.94	
Nickel	12		mg/Kg	0.94	
Vanadium	11		mg/Kg	0.94	
Zinc	73		mg/Kg	4.7	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	2.8		mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-04

Lab ID: 447837-002

Collected: 07/09/21 10:15

Matrix: Soil

447837-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.3		mg/Kg	0.93	0.62
Barium	46		mg/Kg	0.93	
Chromium	17		mg/Kg	0.93	
Cobalt	2.4		mg/Kg	0.46	
Copper	5.6		mg/Kg	0.93	
Lead	44		mg/Kg	0.93	
Nickel	11		mg/Kg	0.93	
Vanadium	11		mg/Kg	0.93	
Zinc	60		mg/Kg	4.6	

Detection Summary

Sample ID: 1-SOIL-05
Lab ID: 447837-003
Collected: 07/09/21 10:30
Matrix: Soil
447837-003 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.5		mg/Kg	0.85	0.57
Barium	26		mg/Kg	0.85	
Chromium	12		mg/Kg	0.85	
Cobalt	1.9		mg/Kg	0.42	
Copper	2.3		mg/Kg	0.85	
Lead	5.3		mg/Kg	0.85	
Nickel	9.2		mg/Kg	0.85	
Vanadium	8.7		mg/Kg	0.85	
Zinc	13		mg/Kg	4.2	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	1.6		mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-06
Lab ID: 447837-004
Collected: 07/09/21 10:45
Matrix: Soil
447837-004 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.5		mg/Kg	0.88	0.59
Barium	18		mg/Kg	0.88	
Chromium	12		mg/Kg	0.88	
Cobalt	1.9		mg/Kg	0.44	
Copper	4.4		mg/Kg	0.88	
Lead	2.4		mg/Kg	0.88	
Nickel	9.0		mg/Kg	0.88	
Vanadium	8.2		mg/Kg	0.88	
Zinc	7.1		mg/Kg	4.4	

Detection Summary

Sample ID: 1-SOIL-07
Lab ID: 447837-005
Collected: 07/09/21 11:00
Matrix: Soil
447837-005 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	0.84	J	mg/Kg	0.95	0.64
Barium	22		mg/Kg	0.95	
Chromium	13		mg/Kg	0.95	
Cobalt	1.9		mg/Kg	0.48	
Copper	2.5		mg/Kg	0.95	
Lead	2.1		mg/Kg	0.95	
Nickel	9.0		mg/Kg	0.95	
Vanadium	8.9		mg/Kg	0.95	
Zinc	7.4		mg/Kg	4.8	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	0.68	J	mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-08
Lab ID: 447837-006
Collected: 07/09/21 11:30
Matrix: Soil
447837-006 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.4		mg/Kg	0.83	0.56
Barium	25		mg/Kg	0.83	
Chromium	12		mg/Kg	0.83	
Cobalt	2.0		mg/Kg	0.42	
Copper	3.0		mg/Kg	0.83	
Lead	4.5		mg/Kg	0.83	
Nickel	8.1		mg/Kg	0.83	
Vanadium	9.6		mg/Kg	0.83	
Zinc	9.3		mg/Kg	4.2	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	1.3		mg/Kg	0.80	0.26
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J Estimated value

Enthalpy ANALYTICAL Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Chain of Custody Record Lab No: <u>147837</u> Page: <u>1</u> of <u>1</u>		Turn Around Time (rush by advanced notice only) Standard: 5 Day: 3 Day: X 2 Day: 1 Day: Custom TAT:			
		Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = (lab use only)					
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request		Test Instructions / Comments	
Company:	Vista Environmental Consulting	Name:	City of Seaside -Former Fort Ord	Hexavalent Chromium Method 7196A CAM 17 Metals Method 6010B/7471A			
Report To:	Chris Burns/Aleshia Washington	Number:	211283002				
Email:	chrisburns@vista-env.com	P.O. #:					
Address:	2984 Teagarden Street	Address:					
	San Leandro, Ca 94577						
Phone:	510-346-8860	Global ID:					
Fax:	aleshia.washington@vista-env.com	Sampled By:	C. Burns				
Sample ID		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	
1	1-Sol-03	7/9/21	1000	Soil	1	ICE	4PT Composite
2	1-Sol-04	7/9/21	1015	Soil	1	ICE	6"-12" BGS
3	1-Sol-05	7/9/21	1030	Soil	1	ICE	12"-18" BGS Building
4	1-Sol-06	7/9/21	1045	Soil	1	ICE	18"-24" BGS
5	1-Sol-07	7/9/21	1100	Soil	1	ICE	0-12" BGS
6	1-Sol-08	7/9/21	1130	Soil	1	ICE	12"-18" BGS Hardscape
7							18"-24" BGS
8							3PT Composite
9							
10							

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Chris Burns	Vista	07/09/21 / 11:30
1 Received By:		Jonathan Beck	Vista	7/11/21 1326
2 Relinquished By:		Jonathan Beck	Vista	7/12/21 0823
2 Received By:		Jonathan Beck	EA	7/12/21 0823
3 Relinquished By:		Mykel Leander	EA	7/12/21 1300
3 Received By:		Greene Silverstri	E.A.	7/13/21 10:58

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 447837
Date Received: 7/12/21

Client: Vista
Project: _____

Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (skip Section 3 below)

If no cooler Sample Temp (°C): 18.1 using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/12/21 By (print) mtc (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

Were custody papers dry, filled out properly, and the project identifiable

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time

Date Logged in 7/12/21

By (print) mtc

(sign) [Signature]

Date Labeled 7/12/21

By (print) mtc

(sign) [Signature]



SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista Environmental Consulting Project: City of Seaside - Former Fort Ord

Date Received: 07/13/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☒ No (skip section 2) Sample Temp (°C) (No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 5.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam

☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.0 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: Deena Sykes Date: 7/13/21

7/12/2021



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553944184

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

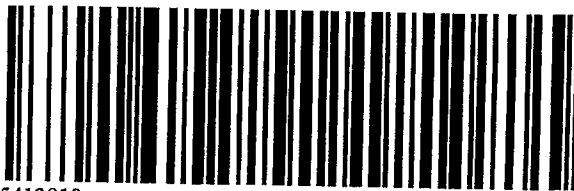
ORANGE

S10003H

COD: \$0.00

Weight: 0 lb(s)

Reference:



Delivery Instructions:

Signature Type: STANDARD

45413819

ORC CA927-EH1

Package 3 of 6

Print Date: 7/12/2021 11:56 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.9/1.0 (3) 10:18

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-001

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.8	0.94	0.63	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	55	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	19	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.4	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	6.5	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	36	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	12	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	73	4.7		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-002

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.3	0.93	0.62	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	46	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	17	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.4	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	5.6	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	44	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	60	4.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-05

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-003

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	0.85	0.57	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	26	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.3	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	5.3	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.2	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.7	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	13	4.2		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-06

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-004

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	0.88	0.59	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	18	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	4.4	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.4	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.2	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.1	4.4		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-07

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-005

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	0.84 J	0.95	0.64	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	22	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.5	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.9	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.4	4.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-08

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-006

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	0.83	0.56	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	25	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.0	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	3.0	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	4.5	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.1	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.6	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.3	4.2		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933971

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270440	Analysis: EPA 6010B
Lab ID: QC933972	Prepared: 07/13/21	Analyst: KLN
Matrix: Soil	Analyzed: 07/15/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.45	98	80-120	mg/Kg
Arsenic	100.0	95.65	96	80-120	mg/Kg
Barium	100.0	101.3	101	80-120	mg/Kg
Beryllium	100.0	98.30	98	80-120	mg/Kg
Cadmium	100.0	109.0	109	80-120	mg/Kg
Chromium	100.0	98.19	98	80-120	mg/Kg
Cobalt	100.0	105.5	106	80-120	mg/Kg
Copper	100.0	100.6	101	80-120	mg/Kg
Lead	100.0	100.7	101	80-120	mg/Kg
Molybdenum	100.0	92.60	93	80-120	mg/Kg
Nickel	100.0	104.7	105	80-120	mg/Kg
Selenium	100.0	95.83	96	80-120	mg/Kg
Silver	50.00	49.17	98	80-120	mg/Kg
Thallium	100.0	104.8	105	80-120	mg/Kg
Vanadium	100.0	97.91	98	80-120	mg/Kg
Zinc	100.0	114.6	115	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933973	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.524	93.46	42.85	46 *	75-125	mg/Kg
Arsenic	2.010	93.46	89.56	94	75-125	mg/Kg
Barium	29.29	93.46	121.2	98	75-125	mg/Kg
Beryllium	0.1810	93.46	93.74	100	75-125	mg/Kg
Cadmium	0.1905	93.46	95.79	102	75-125	mg/Kg
Chromium	12.28	93.46	97.01	91	75-125	mg/Kg
Cobalt	1.848	93.46	92.24	97	75-125	mg/Kg
Copper	3.543	93.46	97.48	101	75-125	mg/Kg
Lead	4.943	93.46	95.42	97	75-125	mg/Kg
Molybdenum	<0.5619	93.46	82.22	88	75-125	mg/Kg
Nickel	10.28	93.46	100.8	97	75-125	mg/Kg
Selenium	<1.714	93.46	91.63	98	75-125	mg/Kg
Silver	0.2286	46.73	42.99	92	75-125	mg/Kg
Thallium	<1.048	93.46	93.74	100	75-125	mg/Kg
Vanadium	9.924	93.46	96.82	93	75-125	mg/Kg
Zinc	14.43	93.46	114.9	107	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933974	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	84.03	39.08	47 *	75-125	mg/Kg	1	41
Arsenic	84.03	83.61	97	75-125	mg/Kg	4	35
Barium	84.03	118.5	106	75-125	mg/Kg	6	20
Beryllium	84.03	84.12	100	75-125	mg/Kg	0	20
Cadmium	84.03	90.08	107	75-125	mg/Kg	4	20
Chromium	84.03	93.61	97	75-125	mg/Kg	6	20
Cobalt	84.03	86.81	101	75-125	mg/Kg	4	20
Copper	84.03	88.07	101	75-125	mg/Kg	0	20
Lead	84.03	88.66	100	75-125	mg/Kg	3	20
Molybdenum	84.03	76.61	91	75-125	mg/Kg	4	20
Nickel	84.03	98.40	105	75-125	mg/Kg	7	20
Selenium	84.03	84.12	100	75-125	mg/Kg	2	20
Silver	42.02	40.49	96	75-125	mg/Kg	5	20
Thallium	84.03	86.97	104	75-125	mg/Kg	3	20
Vanadium	84.03	93.11	99	75-125	mg/Kg	6	20
Zinc	84.03	107.6	111	75-125	mg/Kg	3	20

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** BLANK**Batch#:** 270482**Analysis:** EPA 7471A**Lab ID:** QC934085**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270482**Analysis:** EPA 7471A**Lab ID:** QC934086**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8107	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447880-001	Batch#: 270482	Prep: METHOD
Lab ID: QC934087	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04414	0.9434	0.9193	97	75-125	mg/Kg

Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447880-001	Batch#: 270482	Prep: METHOD
Lab ID: QC934088	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.9804	0.9748	99	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-03

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-001

Sampled: 07/09/21 10:00

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	2.8	0.80	0.26	mg/Kg

Field ID: 1-SOIL-04

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-002

Sampled: 07/09/21 10:15

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1-SOIL-05

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-003

Sampled: 07/09/21 10:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	1.6	0.80	0.26	mg/Kg

Field ID: 1-SOIL-06

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-004

Sampled: 07/09/21 10:45

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1-SOIL-07

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447837-005

Sampled: 07/09/21 11:00

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.68 J	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 447837		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL-08	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447837-006	Sampled: 07/09/21 11:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	1.3	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 270632	Analysis: EPA 7196A	
Lab ID: QC934467	Prepared: 07/14/21 18:30	Analyst: ATP	
Matrix: Soil	Analyzed: 07/15/21 14:52		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934468

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MS

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934469

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MSD

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934470

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
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enthalpy.com

Lab Job Number: 447838
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447838
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/12/21

Sample ID	Lab ID	Collected	Matrix
2A-SOIL-02	447838-001	07/09/21 08:30	Soil
2A-SOIL-03	447838-002	07/09/21 09:30	Soil
2A-SOIL-04	447838-003	07/09/21 10:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447838
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 07/12/21. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7471A):

Low responses were observed for molybdenum and antimony in the CCV analyzed 07/15/21 15:55; affected data was qualified with "b". Low recoveries were observed for antimony in the MS/MSD of 3-SOIL-03 (lab # 447836-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447838
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

Sample ID: 2A-SOIL-02

Lab ID: 447838-001

Collected: 07/09/21 08:30

Matrix: Soil

447838-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.2		mg/Kg	0.87	0.58
Barium	18		mg/Kg	0.87	
Chromium	11		mg/Kg	0.87	
Cobalt	1.8		mg/Kg	0.43	
Copper	2.0		mg/Kg	0.87	
Lead	2.1		mg/Kg	0.87	
Nickel	9.4		mg/Kg	0.87	
Vanadium	7.4		mg/Kg	0.87	
Zinc	9.3		mg/Kg	4.3	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	3.1		mg/Kg	0.80	0.26
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Sample ID: 2A-SOIL-03

Lab ID: 447838-002

Collected: 07/09/21 09:30

Matrix: Soil

447838-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	0.84	J	mg/Kg	0.93	0.63
Barium	17		mg/Kg	0.93	
Chromium	10		mg/Kg	0.93	
Cobalt	1.6		mg/Kg	0.47	
Copper	1.7		mg/Kg	0.93	
Lead	2.3		mg/Kg	0.93	
Nickel	9.7		mg/Kg	0.93	
Vanadium	6.9		mg/Kg	0.93	
Zinc	9.6		mg/Kg	4.7	

Detection Summary

Sample ID: 2A-SOIL-04	Lab ID: 447838-003	Collected: 07/09/21 10:30
	Matrix: Soil	

447838-003 Analyte	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.1		mg/Kg	0.99	0.66
Barium	14		mg/Kg	0.99	
Chromium	11		mg/Kg	0.99	
Cobalt	1.5		mg/Kg	0.50	
Copper	1.8		mg/Kg	0.99	
Lead	1.8		mg/Kg	0.99	
Nickel	10		mg/Kg	0.99	
Vanadium	6.4		mg/Kg	0.99	
Zinc	6.6		mg/Kg	5.0	

J Estimated value

ENTHALPY ANALYTICAL Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Chain of Custody Record		Turn Around Time (rush by advanced notice only)					
		Lab No: 447038	Page: 1 of 1	Standard:	5 Day:	3 Day:	X		
Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other (lab use only)		Analysis Request		Test Instructions / Comments					
		PROJECT INFORMATION		Test Instructions / Comments					
Company:	Vista Environmental Consulting	Name:	City of Seaside -Former Fort Ord	 Lead STIC and TCIP Hexavalent Chromium Method 7196A CAM 17 Metals Method 6010B/7471A					
Report To:	Chris Burns/Aleshia Washington	Number:	211283002						
Email:	chrisburns@vista-env.com	P.O. #:							
Address:	2984 Teagarden Street	Address:							
	San Leandro, Ca 94577								
Phone:	510-346-8860	Global ID:							
Fax:	aleshia.washington@vista-env.com	Sampled By:	C. Burns						
Sample ID	Sampling Date	Sampling Time	Matrix					Container No. / Size	Pres.
1 2A-Sol-02	7/9/21	0830	Soil					1	ICE
2 2A-Sol-03	7/9/21	0930	Soil					1	ICE
3 2A-Sol-04	7/9/21	1030	Soil	1	ICE				
4									
5									
6									
7									
8									
9									
10									

Relinquished By:		Print Name	Chris Burns	Company / Title	Vista	Date / Time	07/09/21 - 1130
Received By:			Jonathan Beck		Vista		7/11/21 1326
Relinquished By:			Jonathan Beck		Vista		7/12/21 0823
Received By:			Miguel Cardenas		EA		7/12/21 0822
Relinquished By:			Geena Silvestri		EA		7/12/21 1300
Received By:			Geena Silvestri		EA		7/13/21 10:58

SAMPLE RECEIPT CHECKLIST



Section 1: Login # 447838 Client: Vista
 Date Received: 7/12/21 Project: _____

Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (skip Section 3 below)

If no cooler Sample Temp (°C): 18.1 using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/12/21 By (print) MTG (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?		☒	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?		☒	
Was the client contacted concerning this sample delivery?			
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (If N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____
☐ HCL lot# _____ added to samples _____ on/at _____
☐ HNO3 lot# _____ added to samples _____ on/at _____
☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time

Date Logged in 7/12/21 By (print) MTG (sign) [Signature]

Date Labeled 7/12/21 By (print) MTG (sign) [Signature]



SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: <u>Vista Environmental Consulting</u>	Project: <u>City of Seaside - Former Fort Ord</u>
Date Received: <u>07/13/21</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>1</u> ☒ No (skip section 2) Sample Temp (°C) (No Cooler) : _____	
Sample Temp (°C), One from each cooler: #1: <u>5.9</u> #2: _____ #3: _____ #4: _____	
(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)	
Shipping Information: _____	

Section 3	
Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: <u>1.0</u> #2: _____ #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6	
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____	
☐ Email (email sent to/on): _____ / _____	
Project Manager's response:	

Completed By: Geneva Sylvester Date: 7/13/21

7/12/2021



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553944184

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

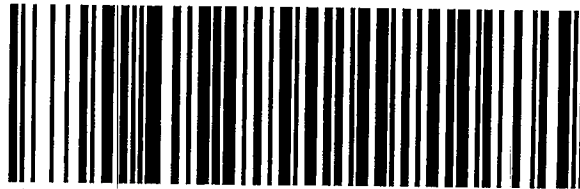
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S10003H



45413819

ORC CA927-EH1

Print Date: 7/12/2021 11:56 AM

Package 3 of 6

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.9/1.0
③
⑩ 10.18

California Title 22 Metals

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2A-SOIL-02

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447838-001

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.2	0.87	0.58	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	18	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.43		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.43		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.8	0.43		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.0	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.4	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.43		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	7.4	0.87		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.3	4.3		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2A-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447838-002

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	0.84 J	0.93	0.63	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	17	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	10	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.6	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	1.7	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.3	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.7	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	6.9	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.6	4.7		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 2A-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447838-003

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.1	0.99	0.66	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	14	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.50		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.50		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.5	0.50		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	1.8	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270481	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	10	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.50		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	6.4	0.99		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	6.6	5.0		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933971

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933972

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.45	98	80-120	mg/Kg
Arsenic	100.0	95.65	96	80-120	mg/Kg
Barium	100.0	101.3	101	80-120	mg/Kg
Beryllium	100.0	98.30	98	80-120	mg/Kg
Cadmium	100.0	109.0	109	80-120	mg/Kg
Chromium	100.0	98.19	98	80-120	mg/Kg
Cobalt	100.0	105.5	106	80-120	mg/Kg
Copper	100.0	100.6	101	80-120	mg/Kg
Lead	100.0	100.7	101	80-120	mg/Kg
Molybdenum	100.0	92.60	93	80-120	mg/Kg
Nickel	100.0	104.7	105	80-120	mg/Kg
Selenium	100.0	95.83	96	80-120	mg/Kg
Silver	50.00	49.17	98	80-120	mg/Kg
Thallium	100.0	104.8	105	80-120	mg/Kg
Vanadium	100.0	97.91	98	80-120	mg/Kg
Zinc	100.0	114.6	115	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447838	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933973	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.524	93.46	42.85	46 *	75-125	mg/Kg
Arsenic	2.010	93.46	89.56	94	75-125	mg/Kg
Barium	29.29	93.46	121.2	98	75-125	mg/Kg
Beryllium	0.1810	93.46	93.74	100	75-125	mg/Kg
Cadmium	0.1905	93.46	95.79	102	75-125	mg/Kg
Chromium	12.28	93.46	97.01	91	75-125	mg/Kg
Cobalt	1.848	93.46	92.24	97	75-125	mg/Kg
Copper	3.543	93.46	97.48	101	75-125	mg/Kg
Lead	4.943	93.46	95.42	97	75-125	mg/Kg
Molybdenum	<0.5619	93.46	82.22	88	75-125	mg/Kg
Nickel	10.28	93.46	100.8	97	75-125	mg/Kg
Selenium	<1.714	93.46	91.63	98	75-125	mg/Kg
Silver	0.2286	46.73	42.99	92	75-125	mg/Kg
Thallium	<1.048	93.46	93.74	100	75-125	mg/Kg
Vanadium	9.924	93.46	96.82	93	75-125	mg/Kg
Zinc	14.43	93.46	114.9	107	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933974	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	84.03	39.08	47 *	75-125	mg/Kg	1	41
Arsenic	84.03	83.61	97	75-125	mg/Kg	4	35
Barium	84.03	118.5	106	75-125	mg/Kg	6	20
Beryllium	84.03	84.12	100	75-125	mg/Kg	0	20
Cadmium	84.03	90.08	107	75-125	mg/Kg	4	20
Chromium	84.03	93.61	97	75-125	mg/Kg	6	20
Cobalt	84.03	86.81	101	75-125	mg/Kg	4	20
Copper	84.03	88.07	101	75-125	mg/Kg	0	20
Lead	84.03	88.66	100	75-125	mg/Kg	3	20
Molybdenum	84.03	76.61	91	75-125	mg/Kg	4	20
Nickel	84.03	98.40	105	75-125	mg/Kg	7	20
Selenium	84.03	84.12	100	75-125	mg/Kg	2	20
Silver	42.02	40.49	96	75-125	mg/Kg	5	20
Thallium	84.03	86.97	104	75-125	mg/Kg	3	20
Vanadium	84.03	93.11	99	75-125	mg/Kg	6	20
Zinc	84.03	107.6	111	75-125	mg/Kg	3	20

California Title 22 Metals: Batch QC**Lab #:** 447838**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 447838		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK		Batch#: 270481	Analysis: EPA 7471A
Lab ID: QC934081		Prepared: 07/13/21	Analyst: TNN
Matrix: Soil		Analyzed: 07/14/21	
Diln Fac: 1.000		Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447838**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270481**Analysis:** EPA 7471A**Lab ID:** QC934082**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8448	101	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447838	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447836-001	Batch#: 270481	Prep: METHOD
Lab ID: QC934083	Sampled: 07/09/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/12/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04414	0.9804	0.9458	96	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447836-001	Batch#: 270481	Prep: METHOD
Lab ID: QC934084	Sampled: 07/09/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/12/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8475	0.8296	98	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447838		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 2A-SOIL-02	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447838-001	Sampled: 07/09/21 08:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	3.1	0.80	0.26	mg/Kg

Field ID: 2A-SOIL-03	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447838-002	Sampled: 07/09/21 09:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 2A-SOIL-04	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447838-003	Sampled: 07/09/21 10:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 270632	Analysis: EPA 7196A	
Lab ID: QC934467	Prepared: 07/14/21 18:30	Analyst: ATP	
Matrix: Soil	Analyzed: 07/15/21 14:52		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit
ND: Not Detected at or above MDL
RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447838

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934468

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MS

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934469

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MSD

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934470

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447893
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447893
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/13/21

Sample ID	Lab ID	Collected	Matrix
5A-SOIL-02	447893-001	07/12/21 09:15	Soil
5A-SOIL-03	447893-002	07/12/21 09:30	Soil
5A-SOIL-04	447893-003	07/12/21 09:45	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447893
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/13/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 07/13/21. The samples were received on ice and intact, directly from the field.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 5A-SOIL-02 (lab # 447893-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447893
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/13/21

Sample ID: 5A-SOIL-02

Lab ID: 447893-001

Collected: 07/12/21 09:15

Matrix: Soil

447893-001 Analyte

Method: EPA 6010B
Prep Method: EPA 3050B

	Result	Qual	Units	RL	MDL
Arsenic	1.2		mg/Kg	0.92	0.61
Barium	21		mg/Kg	0.92	
Chromium	12		mg/Kg	0.92	
Cobalt	1.9		mg/Kg	0.46	
Copper	1.7		mg/Kg	0.92	
Lead	2.0		mg/Kg	0.92	
Nickel	7.3		mg/Kg	0.92	
Vanadium	9.9		mg/Kg	0.92	
Zinc	7.0		mg/Kg	4.6	

Sample ID: 5A-SOIL-03

Lab ID: 447893-002

Collected: 07/12/21 09:30

Matrix: Soil

447893-002 Analyte

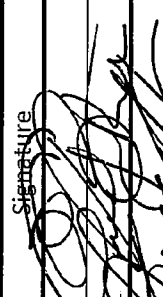
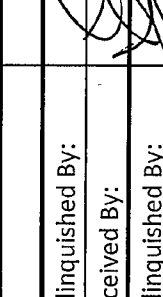
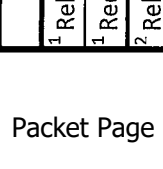
Method: EPA 6010B
Prep Method: EPA 3050B

	Result	Qual	Units	RL	MDL
Arsenic	1.8		mg/Kg	0.97	0.65
Barium	30		mg/Kg	0.97	
Chromium	15		mg/Kg	0.97	
Cobalt	3.3		mg/Kg	0.49	
Copper	2.0		mg/Kg	0.97	
Lead	2.1		mg/Kg	0.97	
Nickel	11		mg/Kg	0.97	
Vanadium	13		mg/Kg	0.97	
Zinc	7.6		mg/Kg	4.9	

Detection Summary

Sample ID: 5A-SOIL-04	Lab ID: 447893-003	Collected: 07/12/21 09:45
	Matrix: Soil	

447893-003 Analyte	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.1		mg/Kg	0.98	0.66
Barium	21		mg/Kg	0.98	
Chromium	11		mg/Kg	0.98	
Cobalt	1.9		mg/Kg	0.49	
Copper	1.5		mg/Kg	0.98	
Lead	1.7		mg/Kg	0.98	
Nickel	7.4		mg/Kg	0.98	
Vanadium	10		mg/Kg	0.98	
Zinc	5.7		mg/Kg	4.9	
Method: EPA 7196A					
Prep Method: EPA 3060A					
Hexavalent Chromium	2.6		mg/Kg	0.80	0.26

 ENTHALPY ANALYTICAL		Chain of Custody Record Lab No: <u>447893</u> Page: <u>1</u> of <u>1</u>		Turn Around Time (rush by advanced notice only) Standard: ☐ 5 Day: ☐ 3 Day: ☒ 2 Day: ☐ 1 Day: ☐ Custom TAT: ☐	
Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other		Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = (lab use only)	
CUSTOMER INFORMATION Company: Vista Environmental Consulting Report To: Chris Burns/Aleshia Washington Email: chrisburns@vista-env.com Address: 2984 Teagarden Street San Leandro, Ca 94577 Phone: 510-346-8860 Fax: aleshia.washington@vista-env.com		PROJECT INFORMATION Name: City of Seaside -Former Fort Ord Number: 211283002 P.O. #: Address: Global ID: Sampled By: C. Burns		Analysis Request Hexavalent Chromium Method 7196A CAM 17 Metals Method 6010B/7471A	
Test Instructions / Comments		3 pt Composite 6"-12" BGS 12"-18" BGS 18"-24" BGS			
Sample ID 1 5A-Soil-02 2 5A-Soil-03 3 5A-Soil-04 4 5 6 7 8 9 10		Sampling Date 7/12/21 7/12/21 7/12/21		Sampling Time 0915 0930 0945	
Matrix Soil Soil Soil		Container No. / Size 1 1 1		Pres. ICE ICE ICE	
Signature  Relinquished By:		Print Name Chris Burns		Company / Title Vista	
Signature  Received By:		Javier Rocha		Vista 7/13/21, 0915	
Signature  Relinquished By:		Javier Rocha		Vista 7/13/21, 1000	
Signature Received By:		Daphna Bragman		Vista 7/13/21, 1153	
Signature Relinquished By:		Jacob Kohn		Vista 7/13/21, 1153	
Signature Received By:		Gerald Silvestri		Vista 7/13/21, 1450	
Signature Received By:		Gerald Silvestri		Vista 7/14/21, 10:49	

SAMPLE RECEIPT CHECKLIST


Section 1: Login # 447893 Client: Vista
 Date Received: 7/13/21 Project: _____

Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☒ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/13/21 By (print) MTG (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☒ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒		
Were Method 5035 sampling containers present?		☒	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	☒		
Are there any missing / extra samples?		☒	
Are samples in the appropriate containers for indicated tests?	☒		
Are sample labels present, in good condition and complete?		☒	
Does the container count match the COC?	☒		
Do the sample labels agree with custody papers?	☒		
Was sufficient amount of sample sent for tests requested?	☒		
Did you change the hold time in LIMS for unpreserved VOAs?			☒
Did you change the hold time in LIMS for preserved terracores?			☒
Are bubbles > 6mm present in VOA samples?		☒	
Was the client contacted concerning this sample delivery?		☒	
If YES, who was called? _____ By _____ Date: _____			

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____
☐ HCL lot# _____ added to samples _____ on/at _____
☐ HNO3 lot# _____ added to samples _____ on/at _____
☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not have date/time.

Date Logged in 7/13/21 By (print) MTG for ZLT (sign) [Signature]
 Date Labeled 7/13/21 By (print) MTG (sign) [Signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista Environmental Consulting

Project: City of Seaside- Former Fort Ord

Date Received: 07/14/21

Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 4.8 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☒ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.4 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: Deena Sylvester Date: 7/14/21

7/13/2021



800-322-5555
www.gls-us.com

Ship From
ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553962608

CPS

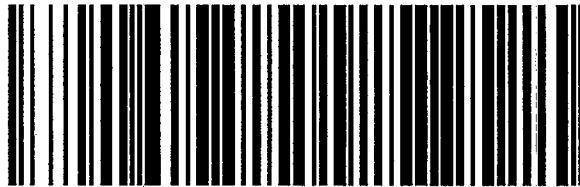


Ship To
ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00
Weight: 0 lb(s)
Reference:

S10003H



45498474

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-EH1

Print Date: 7/13/2021 1:02 PM

Package 1 of 4

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

① 010:49

4.8/2.4

California Title 22 Metals

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5A-SOIL-02

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447893-001

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.2	0.92	0.61	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	21	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.46		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.46		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.46		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	1.7	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	2.0	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	7.3	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.46		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.9	0.92		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.0	4.6		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5A-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447893-002

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.8	0.97	0.65	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	30	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	15	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	3.3	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	2.0	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	13	0.97		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.6	4.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5A-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447893-003

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.1	0.98	0.66	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	21	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	1.5	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	1.7	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	7.4	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.49		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	10	0.98		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	5.7	4.9		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 270550

Analysis: EPA 6010B

Lab ID: QC934254

Prepared: 07/14/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/16/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447893	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270550	Analysis: EPA 6010B
Lab ID: QC934255	Prepared: 07/14/21	Analyst: KLN
Matrix: Soil	Analyzed: 07/16/21	
Diln Fac: 1.000	Prep: EPA 3050B	

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	105.1	105	80-120	mg/Kg
Arsenic	100.0	102.2	102	80-120	mg/Kg
Barium	100.0	104.8	105	80-120	mg/Kg
Beryllium	100.0	101.4	101	80-120	mg/Kg
Cadmium	100.0	102.3	102	80-120	mg/Kg
Chromium	100.0	102.5	102	80-120	mg/Kg
Cobalt	100.0	106.1	106	80-120	mg/Kg
Copper	100.0	99.39	99	80-120	mg/Kg
Lead	100.0	106.1	106	80-120	mg/Kg
Molybdenum	100.0	106.0	106	80-120	mg/Kg
Nickel	100.0	105.4	105	80-120	mg/Kg
Selenium	100.0	88.14	88	80-120	mg/Kg
Silver	50.00	50.35	101	80-120	mg/Kg
Thallium	100.0	109.2	109	80-120	mg/Kg
Vanadium	100.0	102.5	103	80-120	mg/Kg
Zinc	100.0	102.7	103	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447893	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/16/21
MSS Lab ID: 447893-001	Batch#: 270550	Prep: EPA 3050B
Lab ID: QC934256	Sampled: 07/12/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/13/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.468	100.0	68.42	68 *	75-125	mg/Kg
Arsenic	1.222	100.0	108.8	108	75-125	mg/Kg
Barium	20.71	100.0	134.0	113	75-125	mg/Kg
Beryllium	0.08975	100.0	105.2	105	75-125	mg/Kg
Cadmium	<0.08624	100.0	105.5	105	75-125	mg/Kg
Chromium	12.43	100.0	119.0	107	75-125	mg/Kg
Cobalt	1.934	100.0	110.5	109	75-125	mg/Kg
Copper	1.701	100.0	107.4	106	75-125	mg/Kg
Lead	2.011	100.0	109.7	108	75-125	mg/Kg
Molybdenum	<0.5413	100.0	107.1	107	75-125	mg/Kg
Nickel	7.331	100.0	117.7	110	75-125	mg/Kg
Selenium	<1.651	100.0	92.16	92	75-125	mg/Kg
Silver	<0.1468	50.00	51.25	102	75-125	mg/Kg
Thallium	<1.009	100.0	112.1	112	75-125	mg/Kg
Vanadium	9.920	100.0	118.4	109	75-125	mg/Kg
Zinc	6.967	100.0	113.3	106	75-125	mg/Kg

Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/16/21
MSS Lab ID: 447893-001	Batch#: 270550	Prep: EPA 3050B
Lab ID: QC934257	Sampled: 07/12/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/13/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	59.97	61 *	75-125	mg/Kg	11	41
Arsenic	98.04	105.8	107	75-125	mg/Kg	1	35
Barium	98.04	132.2	114	75-125	mg/Kg	0	20
Beryllium	98.04	104.4	106	75-125	mg/Kg	1	20
Cadmium	98.04	103.0	105	75-125	mg/Kg	0	20
Chromium	98.04	116.2	106	75-125	mg/Kg	1	20
Cobalt	98.04	108.5	109	75-125	mg/Kg	0	20
Copper	98.04	105.0	105	75-125	mg/Kg	0	20
Lead	98.04	107.5	108	75-125	mg/Kg	0	20
Molybdenum	98.04	104.0	106	75-125	mg/Kg	1	20
Nickel	98.04	115.7	111	75-125	mg/Kg	0	20
Selenium	98.04	89.71	92	75-125	mg/Kg	1	20
Silver	49.02	50.19	102	75-125	mg/Kg	0	20
Thallium	98.04	109.5	112	75-125	mg/Kg	0	20
Vanadium	98.04	116.3	109	75-125	mg/Kg	0	20
Zinc	98.04	111.2	106	75-125	mg/Kg	0	20

California Title 22 Metals: Batch QC**Lab #:** 447893**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 447893		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK		Batch#: 270618	Analysis: EPA 7471A
Lab ID: QC934410		Prepared: 07/14/21	Analyst: TNN
Matrix: Soil		Analyzed: 07/15/21	
Diln Fac: 1.000		Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447893**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270618**Analysis:** EPA 7471A**Lab ID:** QC934411**Prepared:** 07/14/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/15/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8430	101	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447893	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447893-001	Batch#: 270618	Prep: METHOD
Lab ID: QC934412	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04587	0.9804	0.9868	101	75-125	mg/Kg

Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447893-001	Batch#: 270618	Prep: METHOD
Lab ID: QC934413	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8475	0.8233	97	75-125	mg/Kg	4	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5A-SOIL-02

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447893-001

Sampled: 07/12/21 09:15

Analysis: EPA 7196A

Matrix: Soil

Received: 07/13/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5A-SOIL-03

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447893-002

Sampled: 07/12/21 09:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/13/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5A-SOIL-04

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447893-003

Sampled: 07/12/21 09:45

Analysis: EPA 7196A

Matrix: Soil

Received: 07/13/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	2.6	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934467

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447893

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934468

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MS

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934469

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MSD

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934470

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447894
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447894
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/13/21

Sample ID	Lab ID	Collected	Matrix
5B-SOIL-02	447894-001	07/12/21 08:10	Soil
5B-SOIL-03	447894-002	07/12/21 08:20	Soil
5B-SOIL-04	447894-003	07/12/21 08:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447894
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/13/21

This data package contains sample and QC results for three soil samples, requested for the above referenced project on 07/13/21. The samples were received on ice and intact, directly from the field.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 5A-SOIL-02 (lab # 447893-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447894
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/13/21

Sample ID: 5B-SOIL-02

Lab ID: 447894-001

Collected: 07/12/21 08:10

Matrix: Soil

447894-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.7		mg/Kg	0.91	0.61
Barium	22		mg/Kg	0.91	
Chromium	12		mg/Kg	0.91	
Cobalt	2.0		mg/Kg	0.45	
Copper	1.8		mg/Kg	0.91	
Lead	1.8		mg/Kg	0.91	
Nickel	12		mg/Kg	0.91	
Vanadium	9.0		mg/Kg	0.91	
Zinc	9.9		mg/Kg	4.5	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	0.75	J	mg/Kg	0.80	0.26
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Sample ID: 5B-SOIL-03

Lab ID: 447894-002

Collected: 07/12/21 08:20

Matrix: Soil

447894-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.0		mg/Kg	0.91	0.61
Barium	28		mg/Kg	0.91	
Chromium	14		mg/Kg	0.91	
Cobalt	2.2		mg/Kg	0.45	
Copper	2.2		mg/Kg	0.91	
Lead	2.2		mg/Kg	0.91	
Nickel	13		mg/Kg	0.91	
Vanadium	11		mg/Kg	0.91	
Zinc	9.0		mg/Kg	4.5	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	0.40	J	mg/Kg	0.80	0.26
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Detection Summary

Sample ID: 5B-SOIL-04	Lab ID: 447894-003	Collected: 07/12/21 08:30
	Matrix: Soil	

447894-003 Analyte	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.7		mg/Kg	1.0	0.68
Barium	24		mg/Kg	1.0	
Chromium	13		mg/Kg	1.0	
Cobalt	1.7		mg/Kg	0.51	
Copper	1.9		mg/Kg	1.0	
Lead	1.5		mg/Kg	1.0	
Nickel	11		mg/Kg	1.0	
Vanadium	8.0		mg/Kg	1.0	
Zinc	8.3		mg/Kg	5.1	
Method: EPA 7196A					
Prep Method: EPA 3060A					
Hexavalent Chromium	0.60	J	mg/Kg	0.80	0.26

J Estimated value

ENTHALPY ANALYTICAL

Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710

Phone 510-486-0900

Chain of Custody Record

Lab No: 447894

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard: 5 Day: 3 Day: X
2 Day: 1 Day: Custom TAT:

Matrix: A = Air S = Soil/Solid
= Water DW = Drinking Water SD = Sediment
PP = Pure Product SEA = Sea Water
SW = Swab T = Tissue WP = Wipe O = Other (lab use only)

Preservatives:
1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
4 = H₂SO₄ 5 = NaOH 6 =

Sample Receipt Temp:

CUSTOMER INFORMATION

Company: Vista Environmental Consulting
Report To: Chris Burns/Aleshia Washington
Email: chrisburns@vista-env.com
Address: 2984 Teagarden Street
San Leandro, Ca 94577
Phone: 510-346-8860
Fax: aleshia.washington@vista-env.com
Name: City of Seaside -Former Fort Ord
Number: 211283002
P.O. #:
Address:
Global ID:
Sampled By: C. Burns

PROJECT INFORMATION

Matrix: A = Air S = Soil/Solid
= Water DW = Drinking Water SD = Sediment
PP = Pure Product SEA = Sea Water
SW = Swab T = Tissue WP = Wipe O = Other (lab use only)

Analysis Request

CAM 17 Metals Method 6010B/7471A
Hexavalent Chromium Method 7196A
Lead, Silica and TCLP

Test Instructions / Comments

3-PT Composite
0.1" - 12" BG-S
0.1" - 18" BG-S
18" - 24" BG-S

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.
1 SB-Soil-02	7/12/21	0810	Soil	1	ICE X
2 SB-Soil-03	7/12/21	0820	Soil	1	ICE X
3 SB-Soil-04	7/12/21	0830	Soil	1	ICE X
4					
5					
6					
7					
8					
9					
10					

Signature	Print Name	Company / Title	Date / Time
	Chris Burns	Vista	7/13/21, 09:15
	JAVIER ROCHA	Vista	7/13/21, 10:00
	JAVIER ROCHA	Vista	7/13/21, 11:53
	JAPHETH BANGUHAN	ENTHALPY	7/13/21, 11:53
	Jacob Holm	ENTHALPY	7/13/21, 14:49
	Emma Silvestri	E.A.O	7/14/21, 10:49

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 447894

Client: Vista



Date Received: 7/13/21

Project: _____

Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☒ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/13/21 By (print) MAG (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☒ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	☒	☐	☐
Were Method 5035 sampling containers present?	☒	☐	☐
If YES, what time were they transferred to freezer?	☒	☐	☐
Did all bottles arrive unbroken/unopened?	☒	☐	☐
Are there any missing / extra samples?	☒	☐	☐
Are samples in the appropriate containers for indicated tests?	☒	☐	☐
Are sample labels present, in good condition and complete?	☒	☐	☐
Does the container count match the COC?	☒	☐	☐
Do the sample labels agree with custody papers?	☒	☐	☐
Was sufficient amount of sample sent for tests requested?	☒	☐	☐
Did you change the hold time in LIMS for unpreserved VOAs?	☒	☐	☐
Did you change the hold time in LIMS for preserved terracores?	☒	☐	☐
Are bubbles > 6mm present in VOA samples?	☒	☐	☐
Was the client contacted concerning this sample delivery?	☒	☐	☐
If YES, who was called? _____ By _____ Date: _____	☒	☐	☐

Section 5:

	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)	☒	☐	☐
Did you check preservatives for all bottles for each sample?	☒	☐	☐
Did you document your preservative check?	☒	☐	☐
pH strip lot# _____, pH strip lot# _____, pH strip lot# _____			
Preservative added:			
☐ H2SO4 lot# _____ added to samples _____ on/at _____			
☐ HCL lot# _____ added to samples _____ on/at _____			
☐ HNO3 lot# _____ added to samples _____ on/at _____			
☐ NaOH lot# _____ added to samples _____ on/at _____			

Section 6:

Explanations/Comments: Sample labels do not have date/time.

Date Logged in 7/13/21

By (print) MAG Per 211 (sign) [Signature]

Date Labeled 7/13/21

By (print) MAG (sign) [Signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1
 Client: Vista Environmental Consulting Project: City of Seaside- Former Fort Ord
 Date Received: 07/14/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2
 Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) _____
 (No Cooler) : _____
 Sample Temp (°C), One from each cooler: #1: 4.8 #2: _____ #3: _____ #4: _____
 (Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)
 Shipping Information: _____

Section 3
 Was the cooler packed with: ☒ Ice ☐ Ice Packs ☒ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____
 Cooler Temp (°C): #1: 2.4 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6
 For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____
☐ Email (email sent to/on): _____ / _____
 Project Manager's response: _____

Completed By: Aleana Sylvestre Date: 7/14/21

7/13/2021



800-322-5555
www.gls-us.com

Ship From
ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553962608

CPS

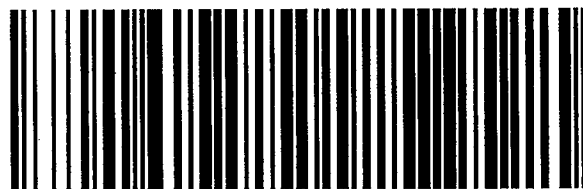


Ship To
ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

S10003H

COD: \$0.00
Weight: 0 lb(s)
Reference:



Delivery Instructions:

Signature Type: STANDARD

45498474

ORC CA927-EH1

Print Date: 7/13/2021 1:02 PM

Package 1 of 4

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

① 010:49

4.8/2.4

California Title 22 Metals

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5B-SOIL-02

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447894-001

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	0.91	0.61	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	22	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.0	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	1.8	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	12	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.0	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.9	4.5		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5B-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447894-002

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.0	0.91	0.61	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	28	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	2.2	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	2.2	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	13	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.45		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.7		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.91		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.0	4.5		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5B-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/13/21

Lab ID: 447894-003

Basis: as received

Sampled: 07/12/21

Prepared: 07/14/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	1.0	0.68	mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Barium	24	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.7	0.51		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Copper	1.9	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Lead	1.5	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270618	07/15/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.0	1.0		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.3	5.1		mg/Kg	270550	07/16/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 270550

Analysis: EPA 6010B

Lab ID: QC934254

Prepared: 07/14/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/16/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270550

Analysis: EPA 6010B

Lab ID: QC934255

Prepared: 07/14/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/16/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	105.1	105	80-120	mg/Kg
Arsenic	100.0	102.2	102	80-120	mg/Kg
Barium	100.0	104.8	105	80-120	mg/Kg
Beryllium	100.0	101.4	101	80-120	mg/Kg
Cadmium	100.0	102.3	102	80-120	mg/Kg
Chromium	100.0	102.5	102	80-120	mg/Kg
Cobalt	100.0	106.1	106	80-120	mg/Kg
Copper	100.0	99.39	99	80-120	mg/Kg
Lead	100.0	106.1	106	80-120	mg/Kg
Molybdenum	100.0	106.0	106	80-120	mg/Kg
Nickel	100.0	105.4	105	80-120	mg/Kg
Selenium	100.0	88.14	88	80-120	mg/Kg
Silver	50.00	50.35	101	80-120	mg/Kg
Thallium	100.0	109.2	109	80-120	mg/Kg
Vanadium	100.0	102.5	103	80-120	mg/Kg
Zinc	100.0	102.7	103	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447894	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/16/21
MSS Lab ID: 447893-001	Batch#: 270550	Prep: EPA 3050B
Lab ID: QC934256	Sampled: 07/12/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/13/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.468	100.0	68.42	68 *	75-125	mg/Kg
Arsenic	1.222	100.0	108.8	108	75-125	mg/Kg
Barium	20.71	100.0	134.0	113	75-125	mg/Kg
Beryllium	0.08975	100.0	105.2	105	75-125	mg/Kg
Cadmium	<0.08624	100.0	105.5	105	75-125	mg/Kg
Chromium	12.43	100.0	119.0	107	75-125	mg/Kg
Cobalt	1.934	100.0	110.5	109	75-125	mg/Kg
Copper	1.701	100.0	107.4	106	75-125	mg/Kg
Lead	2.011	100.0	109.7	108	75-125	mg/Kg
Molybdenum	<0.5413	100.0	107.1	107	75-125	mg/Kg
Nickel	7.331	100.0	117.7	110	75-125	mg/Kg
Selenium	<1.651	100.0	92.16	92	75-125	mg/Kg
Silver	<0.1468	50.00	51.25	102	75-125	mg/Kg
Thallium	<1.009	100.0	112.1	112	75-125	mg/Kg
Vanadium	9.920	100.0	118.4	109	75-125	mg/Kg
Zinc	6.967	100.0	113.3	106	75-125	mg/Kg

Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/16/21
MSS Lab ID: 447893-001	Batch#: 270550	Prep: EPA 3050B
Lab ID: QC934257	Sampled: 07/12/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/13/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	98.04	59.97	61 *	75-125	mg/Kg	11	41
Arsenic	98.04	105.8	107	75-125	mg/Kg	1	35
Barium	98.04	132.2	114	75-125	mg/Kg	0	20
Beryllium	98.04	104.4	106	75-125	mg/Kg	1	20
Cadmium	98.04	103.0	105	75-125	mg/Kg	0	20
Chromium	98.04	116.2	106	75-125	mg/Kg	1	20
Cobalt	98.04	108.5	109	75-125	mg/Kg	0	20
Copper	98.04	105.0	105	75-125	mg/Kg	0	20
Lead	98.04	107.5	108	75-125	mg/Kg	0	20
Molybdenum	98.04	104.0	106	75-125	mg/Kg	1	20
Nickel	98.04	115.7	111	75-125	mg/Kg	0	20
Selenium	98.04	89.71	92	75-125	mg/Kg	1	20
Silver	49.02	50.19	102	75-125	mg/Kg	0	20
Thallium	98.04	109.5	112	75-125	mg/Kg	0	20
Vanadium	98.04	116.3	109	75-125	mg/Kg	0	20
Zinc	98.04	111.2	106	75-125	mg/Kg	0	20

California Title 22 Metals: Batch QC**Lab #:** 447894**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 447894		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BLANK		Batch#: 270618	Analysis: EPA 7471A
Lab ID: QC934410		Prepared: 07/14/21	Analyst: TNN
Matrix: Soil		Analyzed: 07/15/21	
Diln Fac: 1.000		Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447894**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270618**Analysis:** EPA 7471A**Lab ID:** QC934411**Prepared:** 07/14/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/15/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8430	101	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447894	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447893-001	Batch#: 270618	Prep: METHOD
Lab ID: QC934412	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04587	0.9804	0.9868	101	75-125	mg/Kg

Field ID: 5A-SOIL-02	Basis: as received	Prepared: 07/14/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447893-001	Batch#: 270618	Prep: METHOD
Lab ID: QC934413	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8475	0.8233	97	75-125	mg/Kg	4	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 5B-SOIL-02

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447894-001

Sampled: 07/12/21 08:10

Analysis: EPA 7196A

Matrix: Soil

Received: 07/13/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.75 J	0.80	0.26	mg/Kg

Field ID: 5B-SOIL-03

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447894-002

Sampled: 07/12/21 08:20

Analysis: EPA 7196A

Matrix: Soil

Received: 07/13/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.40 J	0.80	0.26	mg/Kg

Field ID: 5B-SOIL-04

Diln Fac: 1.000

Analyzed: 07/15/21 14:52

Type: SAMPLE

Batch#: 270632

Prep: EPA 3060A

Lab ID: 447894-003

Sampled: 07/12/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/13/21

Analyst: ATP

Basis: as received

Prepared: 07/14/21 18:30

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.60 J	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934467

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447894

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270632

Analysis: EPA 7196A

Lab ID: QC934468

Prepared: 07/14/21 18:30

Analyst: ATP

Matrix: Soil

Analyzed: 07/15/21 14:52

Diln Fac: 5.000

Prep: EPA 3060A

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MS

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934469

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03

Basis: as received

Prepared: 07/14/21 18:30

Type: MSD

Diln Fac: 5.000

Analyzed: 07/15/21 14:52

MSS Lab ID: 447836-001

Batch#: 270632

Prep: EPA 3060A

Lab ID: QC934470

Sampled: 07/09/21 08:30

Analysis: EPA 7196A

Matrix: Soil

Received: 07/12/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447578
Report Level: II
Report Date: 07/14/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283001 - City of Seaside - Former Fort Ord

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447578
Vista Environmental	Project No:	211283001
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	04/30/21

Sample ID	Lab ID	Collected	Matrix
1-SOIL 01	447578-001	04/29/21 12:00	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447578
Project No: 211283001
Location: City of Seaside - Former Fort Ord
Date Received: 04/30/21

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 07/06/21.

Metals (EPA 6010B) TCLP Leachate:

No analytical problems were encountered.

Metals (EPA 6010B) WET Leachate:

No analytical problems were encountered.

Detection Summary

Chris Burns
 Vista Environmental
 2984 Teagarden Street
 San Leandro, CA 94577

Lab Job #: 447578
 Project No: 211283001
 Location: City of Seaside - Former Fort Ord
 Date Received: 04/30/21

Sample ID: 1-SOIL 01

Lab ID: 447578-001

Collected: 04/29/21 12:00

447578-001 Analyte

Method: EPA 6010B
 Prep Method: EPA 3010A

	Result	Qual	Units	RL	Matrix
Lead	0.12		mg/L	0.015	TCLP Leachate

Method: EPA 6010B
 Prep Method: WET

Lead	5.2		mg/L	0.15	WET Leachate
------	-----	--	------	------	--------------

[EXTERNAL] Re: 211283001 - Enthalpy Data (444715)

Chris Burns <chrisburns@vista-env.com>
To: john.goyette@enthalpy.com

Tue, Jul 6, 2021 at 7:53 AM

John,

Do you still have this sample at the lab? If so, please run a TCLP and STLC for lead with a standard TAT. If not we will grab another sample when we are down there this week.

Thanks,

Christopher Burns



2984 Teagarden Street
San Leandro, CA 94577

Cell: (925)348-5361

From: John Goyette <john.goyette@enthalpy.com>
To: <chrisburns@vista-env.com>
Sent: 5/11/2021 5:13 PM
Subject: 211283001 - Enthalpy Data (444715)

Hi Chris,

Please find attached the following files:

- PDF Deliverable
- Standard Format EDD ([444715_standard.zip](#))

Email was also sent to: aleshia.washington@vista-env.com

Lead

Lab #: 447578	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Batch#: 270149	Prep: EPA 3010A
Type: SAMPLE	Sampled: 04/29/21	Analysis: EPA 6010B
Lab ID: 447578-001	Received: 04/30/21	Analyst: JCP
Matrix: TCLP Leachate	Prepared: 07/08/21	
Diln Fac: 1.000	Analyzed: 07/12/21	

Analyte	Result	RL	Units
Lead	0.12	0.015	mg/L

Type: BLANK	Batch#: 270149	Analysis: EPA 6010B
Lab ID: QC933145	Prepared: 07/08/21	Analyst: JCP
Matrix: TCLP Leachate	Analyzed: 07/12/21	
Diln Fac: 1.000	Prep: EPA 3010A	

Analyte	Result	RL	Units
Lead	ND	0.015	mg/L

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 447578	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270149	Analysis: EPA 6010B
Lab ID: QC933146	Prepared: 07/08/21	Analyst: JCP
Matrix: TCLP Leachate	Analyzed: 07/12/21	
Diln Fac: 1.000	Prep: EPA 3010A	

Analyte	Spiked	Result	%REC	Limits	Units
Lead	2.000	2.086	104	80-120	mg/L

Field ID: ZZZZZZZZZZ	Diln Fac: 1.000	Analyzed: 07/12/21
Type: MS	Batch#: 270149	Prep: EPA 3010A
MSS Lab ID: 447507-001	Sampled: 07/01/21	Analysis: EPA 6010B
Lab ID: QC933147	Received: 07/01/21	Analyst: JCP
Matrix: TCLP Leachate	Prepared: 07/08/21	

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Lead	0.004763	2.000	2.076	104	75-125	mg/L

Field ID: ZZZZZZZZZZ	Diln Fac: 1.000	Analyzed: 07/12/21
Type: MSD	Batch#: 270149	Prep: EPA 3010A
MSS Lab ID: 447507-001	Sampled: 07/01/21	Analysis: EPA 6010B
Lab ID: QC933148	Received: 07/01/21	Analyst: JCP
Matrix: TCLP Leachate	Prepared: 07/08/21	

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	2.000	2.099	105	75-125	mg/L	1	20

Legend

RPD: Relative Percent Difference

Lead

Lab #: 447578	Project#: 211283001	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL 01	Batch#: 270245	Prep: WET
Type: SAMPLE	Sampled: 04/29/21	Analysis: EPA 6010B
Lab ID: 447578-001	Received: 04/30/21	Analyst: KLN
Matrix: WET Leachate	Prepared: 07/09/21	
Diln Fac: 1.000	Analyzed: 07/13/21	

Analyte	Result	RL	Units
Lead	5.2	0.15	mg/L

Type: BLANK	Batch#: 270245	Analysis: EPA 6010B
Lab ID: QC933396	Prepared: 07/09/21	Analyst: KLN
Matrix: WET Leachate	Analyzed: 07/13/21	
Diln Fac: 1.000	Prep: WET	

Analyte	Result	RL	Units
Lead	ND	0.15	mg/L

Legend

ND: Not Detected

RL: Reporting Limit

Lead: Batch QC

Lab #: 447578		Project#: 211283001	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Type: BS	Batch#: 270245	Analysis: EPA 6010B	
Lab ID: QC933397	Prepared: 07/09/21	Analyst: KLN	
Matrix: WET Leachate	Analyzed: 07/13/21		
Diln Fac: 1.000	Prep: WET		

Analyte	Spiked	Result	%REC	Limits	Units
Lead	5.000	5.556	111	80-120	mg/L

Type: BSD	Batch#: 270245	Analysis: EPA 6010B	
Lab ID: QC933398	Prepared: 07/09/21	Analyst: KLN	
Matrix: WET Leachate	Analyzed: 07/13/21		
Diln Fac: 1.000	Prep: WET		

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	5.000	5.520	110	80-120	mg/L	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 447837
Report Level: II
Report Date: 10/13/2021

Analytical Report *prepared for:*

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Project: 211283002 - City of Seaside - Former Fort Ord

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Chris Burns	Lab Job #:	447837
Vista Environmental	Project No:	211283002
2984 Teagarden Street	Location:	City of Seaside - Former Fort Ord
San Leandro, CA 94577	Date Received:	07/12/21

Sample ID	Lab ID	Collected	Matrix
1-SOIL-03	447837-001	07/09/21 10:00	Soil
1-SOIL-04	447837-002	07/09/21 10:15	Soil
1-SOIL-05	447837-003	07/09/21 10:30	Soil
1-SOIL-06	447837-004	07/09/21 10:45	Soil
1-SOIL-07	447837-005	07/09/21 11:00	Soil
1-SOIL-08	447837-006	07/09/21 11:30	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Chris Burns

Lab Job Number: 447837
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

This data package contains sample and QC results for six soil samples, requested for the above referenced project on 07/12/21. The samples were received intact.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of 3-SOIL-03 (lab # 447836-001); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Detection Summary

Chris Burns
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 447837
Project No: 211283002
Location: City of Seaside - Former Fort Ord
Date Received: 07/12/21

Sample ID: 1-SOIL-03

Lab ID: 447837-001

Collected: 07/09/21 10:00

Matrix: Soil

447837-001 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.8		mg/Kg	0.94	0.63
Barium	55		mg/Kg	0.94	
Chromium	19		mg/Kg	0.94	
Cobalt	2.4		mg/Kg	0.47	
Copper	6.5		mg/Kg	0.94	
Lead	36		mg/Kg	0.94	
Nickel	12		mg/Kg	0.94	
Vanadium	11		mg/Kg	0.94	
Zinc	73		mg/Kg	4.7	

Method: EPA 7196A
Prep Method: EPA 3060A

Hexavalent Chromium	2.8		mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-04

Lab ID: 447837-002

Collected: 07/09/21 10:15

Matrix: Soil

447837-002 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	2.3		mg/Kg	0.93	0.62
Barium	46		mg/Kg	0.93	
Chromium	17		mg/Kg	0.93	
Cobalt	2.4		mg/Kg	0.46	
Copper	5.6		mg/Kg	0.93	
Lead	44		mg/Kg	0.93	
Nickel	11		mg/Kg	0.93	
Vanadium	11		mg/Kg	0.93	
Zinc	60		mg/Kg	4.6	

Detection Summary

Sample ID: 1-SOIL-05
Lab ID: 447837-003
Collected: 07/09/21 10:30
Matrix: Soil
447837-003 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.5		mg/Kg	0.85	0.57
Barium	26		mg/Kg	0.85	
Chromium	12		mg/Kg	0.85	
Cobalt	1.9		mg/Kg	0.42	
Copper	2.3		mg/Kg	0.85	
Lead	5.3		mg/Kg	0.85	
Nickel	9.2		mg/Kg	0.85	
Vanadium	8.7		mg/Kg	0.85	
Zinc	13		mg/Kg	4.2	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	1.6		mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-06
Lab ID: 447837-004
Collected: 07/09/21 10:45
Matrix: Soil
447837-004 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.5		mg/Kg	0.88	0.59
Barium	18		mg/Kg	0.88	
Chromium	12		mg/Kg	0.88	
Cobalt	1.9		mg/Kg	0.44	
Copper	4.4		mg/Kg	0.88	
Lead	2.4		mg/Kg	0.88	
Nickel	9.0		mg/Kg	0.88	
Vanadium	8.2		mg/Kg	0.88	
Zinc	7.1		mg/Kg	4.4	

Detection Summary

Sample ID: 1-SOIL-07
Lab ID: 447837-005
Collected: 07/09/21 11:00
Matrix: Soil
447837-005 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	0.84	J	mg/Kg	0.95	0.64
Barium	22		mg/Kg	0.95	
Chromium	13		mg/Kg	0.95	
Cobalt	1.9		mg/Kg	0.48	
Copper	2.5		mg/Kg	0.95	
Lead	2.1		mg/Kg	0.95	
Nickel	9.0		mg/Kg	0.95	
Vanadium	8.9		mg/Kg	0.95	
Zinc	7.4		mg/Kg	4.8	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	0.68	J	mg/Kg	0.80	0.26
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Sample ID: 1-SOIL-08
Lab ID: 447837-006
Collected: 07/09/21 11:30
Matrix: Soil
447837-006 Analyte

	Result	Qual	Units	RL	MDL
Method: EPA 6010B					
Prep Method: EPA 3050B					
Arsenic	1.4		mg/Kg	0.83	0.56
Barium	25		mg/Kg	0.83	
Chromium	12		mg/Kg	0.83	
Cobalt	2.0		mg/Kg	0.42	
Copper	3.0		mg/Kg	0.83	
Lead	4.5		mg/Kg	0.83	
Nickel	8.1		mg/Kg	0.83	
Vanadium	9.6		mg/Kg	0.83	
Zinc	9.3		mg/Kg	4.2	

Method: EPA 7196A

Prep Method: EPA 3060A

Hexavalent Chromium	1.3		mg/Kg	0.80	0.26
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J Estimated value

Enthalpy ANALYTICAL Enthalpy Analytical - Berkeley 2323 5th Street, Berkeley, CA 94710 Phone 510-486-0900		Chain of Custody Record Lab No: <u>147837</u> Page: <u>1</u> of <u>1</u>		Turn Around Time (rush by advanced notice only) Standard: 5 Day: 3 Day: X 2 Day: 1 Day: Custom TAT:			
		Matrix: A = Air S = Soil/Solid = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other (lab use only)					
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request		Test Instructions / Comments	
Company:	Vista Environmental Consulting	Name:	City of Seaside -Former Fort Ord	Hexavalent Chromium Method 7196A CAM 17 Metals Method 6010B/7471A			
Report To:	Chris Burns/Aleshia Washington	Number:	211283002				
Email:	chrisburns@vista-env.com	P.O. #:					
Address:	2984 Teagarden Street	Address:					
	San Leandro, Ca 94577						
Phone:	510-346-8860	Global ID:					
Fax:	aleshia.washington@vista-env.com	Sampled By:	C. Burns				
Sample ID		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	
1	1-Soil-03	7/9/21	1000	Soil	1	ICE	4PT Composite
2	1-Soil-04	7/9/21	1015	Soil	1	ICE	6"-12" BGS
3	1-Soil-05	7/9/21	1030	Soil	1	ICE	12"-18" BGS Building
4	1-Soil-06	7/9/21	1045	Soil	1	ICE	18"-24" BGS
5	1-Soil-07	7/9/21	1100	Soil	1	ICE	0"-12" BGS
6	1-Soil-08	7/9/21	1130	Soil	1	ICE	12"-18" BGS Hardscape
7							18"-24" BGS
8							3PT Composite
9							
10							

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Chris Burns	Vista	07/09/21 / 11:30
1 Received By:		Jonathan Beck	Vista	7/11/21 1326
2 Relinquished By:		Jonathan Beck	Vista	7/12/21 0823
2 Received By:		Jonathan Beck	SEA	7/12/21 0823
3 Relinquished By:		Myriel Leandre	SEA	7/12/21 1300
3 Received By:		Greene Silverstri	F.A.	7/13/21 10:58

SAMPLE RECEIPT CHECKLIST


Section 1: Login # 447837
Date Received: 7/12/21

Client: Vista
Project: _____

Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☒ No (skip Section 3 below)

If no cooler Sample Temp (°C): 18.1 using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 7/12/21 By (print) mtc (sign) [Signature]

Section 3:

Important: Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☐ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

Were custody papers dry, filled out properly, and the project identifiable

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample labels do not include date/time

Date Logged in 7/12/21

By (print) mtc

(sign) [Signature]

Date Labeled 7/12/21

By (print) mtc

(sign) [Signature]



SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Vista Environmental Consulting Project: City of Seaside - Former Fort Ord

Date Received: 07/13/21 Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☒ No (skip section 2) Sample Temp (°C) (No Cooler) : _____

Sample Temp (°C), One from each cooler: #1: 5.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam

☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.0 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response: _____

Completed By: Deena Syhretin Date: 7/13/21

7/12/2021



800-322-5555
www.gls-us.com

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 553944184

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

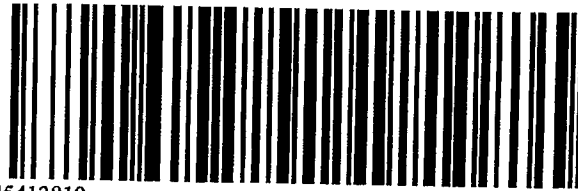
ORANGE

S10003H

COD: \$0.00

Weight: 0 lb(s)

Reference:



Delivery Instructions:

Signature Type: STANDARD

45413819

ORC CA927-EH1

Package 3 of 6

Print Date: 7/12/2021 11:56 AM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.9/1.0 (3) 10:18

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-03

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-001

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.8	0.94	0.63	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	55	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	19	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.4	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	6.5	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	36	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	12	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.47		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.94		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	73	4.7		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-04

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-002

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	2.3	0.93	0.62	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	46	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	17	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.4	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	5.6	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	44	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.14		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.46		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.93		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	60	4.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-05

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-003

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	0.85	0.57	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	26	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.3	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	5.3	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.2	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.7	0.85		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	13	4.2		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-06

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-004

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	0.88	0.59	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	18	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	4.4	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.4	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.44		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.6		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.2	0.88		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.1	4.4		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-07

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-005

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	0.84 J	0.95	0.64	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	22	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	2.5	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.9	0.95		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.4	4.8		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Field ID: 1-SOIL-08

Matrix: Soil

Diln Fac: 1.000

Received: 07/12/21

Lab ID: 447837-006

Basis: as received

Sampled: 07/09/21

Prepared: 07/13/21

Analyte	Result	RL	MDL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	0.83	0.56	mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Barium	25	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.0	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Copper	3.0	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Lead	4.5	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16		mg/Kg	270482	07/14/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.1	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.42		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.5		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.6	0.83		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.3	4.2		mg/Kg	270440	07/15/21	EPA 3050B	EPA 6010B	KLN

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: BLANK

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933971

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	MDL	Units
Antimony	ND	3.0		mg/Kg
Arsenic	ND	1.0	0.67	mg/Kg
Barium	ND	1.0		mg/Kg
Beryllium	ND	0.50		mg/Kg
Cadmium	ND	0.50		mg/Kg
Chromium	ND	1.0		mg/Kg
Cobalt	ND	0.50		mg/Kg
Copper	ND	1.0		mg/Kg
Lead	ND	1.0		mg/Kg
Molybdenum	ND	1.0		mg/Kg
Nickel	ND	1.0		mg/Kg
Selenium	ND	3.0		mg/Kg
Silver	ND	0.50		mg/Kg
Thallium	ND	3.0		mg/Kg
Vanadium	ND	1.0		mg/Kg
Zinc	ND	5.0		mg/Kg

Legend

MDL: Method Detection Limit

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 447837

Project#: 211283002

Client: Vista Environmental

Location: City of Seaside - Former Fort Ord

Type: LCS

Batch#: 270440

Analysis: EPA 6010B

Lab ID: QC933972

Prepared: 07/13/21

Analyst: KLN

Matrix: Soil

Analyzed: 07/15/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	98.45	98	80-120	mg/Kg
Arsenic	100.0	95.65	96	80-120	mg/Kg
Barium	100.0	101.3	101	80-120	mg/Kg
Beryllium	100.0	98.30	98	80-120	mg/Kg
Cadmium	100.0	109.0	109	80-120	mg/Kg
Chromium	100.0	98.19	98	80-120	mg/Kg
Cobalt	100.0	105.5	106	80-120	mg/Kg
Copper	100.0	100.6	101	80-120	mg/Kg
Lead	100.0	100.7	101	80-120	mg/Kg
Molybdenum	100.0	92.60	93	80-120	mg/Kg
Nickel	100.0	104.7	105	80-120	mg/Kg
Selenium	100.0	95.83	96	80-120	mg/Kg
Silver	50.00	49.17	98	80-120	mg/Kg
Thallium	100.0	104.8	105	80-120	mg/Kg
Vanadium	100.0	97.91	98	80-120	mg/Kg
Zinc	100.0	114.6	115	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933973	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	<1.524	93.46	42.85	46 *	75-125	mg/Kg
Arsenic	2.010	93.46	89.56	94	75-125	mg/Kg
Barium	29.29	93.46	121.2	98	75-125	mg/Kg
Beryllium	0.1810	93.46	93.74	100	75-125	mg/Kg
Cadmium	0.1905	93.46	95.79	102	75-125	mg/Kg
Chromium	12.28	93.46	97.01	91	75-125	mg/Kg
Cobalt	1.848	93.46	92.24	97	75-125	mg/Kg
Copper	3.543	93.46	97.48	101	75-125	mg/Kg
Lead	4.943	93.46	95.42	97	75-125	mg/Kg
Molybdenum	<0.5619	93.46	82.22	88	75-125	mg/Kg
Nickel	10.28	93.46	100.8	97	75-125	mg/Kg
Selenium	<1.714	93.46	91.63	98	75-125	mg/Kg
Silver	0.2286	46.73	42.99	92	75-125	mg/Kg
Thallium	<1.048	93.46	93.74	100	75-125	mg/Kg
Vanadium	9.924	93.46	96.82	93	75-125	mg/Kg
Zinc	14.43	93.46	114.9	107	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/15/21
MSS Lab ID: 447836-001	Batch#: 270440	Prep: EPA 3050B
Lab ID: QC933974	Sampled: 07/09/21	Analysis: EPA 6010B
Matrix: Soil	Received: 07/12/21	Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	84.03	39.08	47 *	75-125	mg/Kg	1	41
Arsenic	84.03	83.61	97	75-125	mg/Kg	4	35
Barium	84.03	118.5	106	75-125	mg/Kg	6	20
Beryllium	84.03	84.12	100	75-125	mg/Kg	0	20
Cadmium	84.03	90.08	107	75-125	mg/Kg	4	20
Chromium	84.03	93.61	97	75-125	mg/Kg	6	20
Cobalt	84.03	86.81	101	75-125	mg/Kg	4	20
Copper	84.03	88.07	101	75-125	mg/Kg	0	20
Lead	84.03	88.66	100	75-125	mg/Kg	3	20
Molybdenum	84.03	76.61	91	75-125	mg/Kg	4	20
Nickel	84.03	98.40	105	75-125	mg/Kg	7	20
Selenium	84.03	84.12	100	75-125	mg/Kg	2	20
Silver	42.02	40.49	96	75-125	mg/Kg	5	20
Thallium	84.03	86.97	104	75-125	mg/Kg	3	20
Vanadium	84.03	93.11	99	75-125	mg/Kg	6	20
Zinc	84.03	107.6	111	75-125	mg/Kg	3	20

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: BLANK	Batch#: 270482	Analysis: EPA 7471A
Lab ID: QC934085	Prepared: 07/13/21	Analyst: TNN
Matrix: Soil	Analyzed: 07/14/21	
Diln Fac: 1.000	Prep: METHOD	

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend
ND: Not Detected
RL: Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 447837**Project#:** 211283002**Client:** Vista Environmental**Location:** City of Seaside - Former Fort Ord**Type:** LCS**Batch#:** 270482**Analysis:** EPA 7471A**Lab ID:** QC934086**Prepared:** 07/13/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 07/14/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8107	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/13/21
Type: MS	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447880-001	Batch#: 270482	Prep: METHOD
Lab ID: QC934087	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04414	0.9434	0.9193	97	75-125	mg/Kg

Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/13/21
Type: MSD	Diln Fac: 1.000	Analyzed: 07/14/21
MSS Lab ID: 447880-001	Batch#: 270482	Prep: METHOD
Lab ID: QC934088	Sampled: 07/12/21	Analysis: EPA 7471A
Matrix: Soil	Received: 07/13/21	Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.9804	0.9748	99	75-125	mg/Kg	2	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 447837		Project#: 211283002		
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord		
Field ID: 1-SOIL-03	Diln Fac: 1.000	Analyzed: 07/15/21 14:52		
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A		
Lab ID: 447837-001	Sampled: 07/09/21 10:00	Analysis: EPA 7196A		
Matrix: Soil	Received: 07/12/21	Analyst: ATP		
Basis: as received	Prepared: 07/14/21 18:30			
Analyte	Result	RL	MDL	Units
Hexavalent Chromium	2.8	0.80	0.26	mg/Kg
Field ID: 1-SOIL-04	Diln Fac: 1.000	Analyzed: 07/15/21 14:52		
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A		
Lab ID: 447837-002	Sampled: 07/09/21 10:15	Analysis: EPA 7196A		
Matrix: Soil	Received: 07/12/21	Analyst: ATP		
Basis: as received	Prepared: 07/14/21 18:30			
Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg
Field ID: 1-SOIL-05	Diln Fac: 1.000	Analyzed: 07/15/21 14:52		
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A		
Lab ID: 447837-003	Sampled: 07/09/21 10:30	Analysis: EPA 7196A		
Matrix: Soil	Received: 07/12/21	Analyst: ATP		
Basis: as received	Prepared: 07/14/21 18:30			
Analyte	Result	RL	MDL	Units
Hexavalent Chromium	1.6	0.80	0.26	mg/Kg
Field ID: 1-SOIL-06	Diln Fac: 1.000	Analyzed: 07/15/21 14:52		
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A		
Lab ID: 447837-004	Sampled: 07/09/21 10:45	Analysis: EPA 7196A		
Matrix: Soil	Received: 07/12/21	Analyst: ATP		
Basis: as received	Prepared: 07/14/21 18:30			
Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg
Field ID: 1-SOIL-07	Diln Fac: 1.000	Analyzed: 07/15/21 14:52		
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A		
Lab ID: 447837-005	Sampled: 07/09/21 11:00	Analysis: EPA 7196A		
Matrix: Soil	Received: 07/12/21	Analyst: ATP		
Basis: as received	Prepared: 07/14/21 18:30			
Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.68 J	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 447837		Project#: 211283002	
Client: Vista Environmental		Location: City of Seaside - Former Fort Ord	
Field ID: 1-SOIL-08	Diln Fac: 1.000	Analyzed: 07/15/21 14:52	
Type: SAMPLE	Batch#: 270632	Prep: EPA 3060A	
Lab ID: 447837-006	Sampled: 07/09/21 11:30	Analysis: EPA 7196A	
Matrix: Soil	Received: 07/12/21	Analyst: ATP	
Basis: as received	Prepared: 07/14/21 18:30		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	1.3	0.80	0.26	mg/Kg

Type: BLANK	Batch#: 270632	Analysis: EPA 7196A	
Lab ID: QC934467	Prepared: 07/14/21 18:30	Analyst: ATP	
Matrix: Soil	Analyzed: 07/15/21 14:52		
Diln Fac: 1.000	Prep: EPA 3060A		

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 447837	Project#: 211283002	
Client: Vista Environmental	Location: City of Seaside - Former Fort Ord	
Type: LCS	Batch#: 270632	Analysis: EPA 7196A
Lab ID: QC934468	Prepared: 07/14/21 18:30	Analyst: ATP
Matrix: Soil	Analyzed: 07/15/21 14:52	
Diln Fac: 5.000	Prep: EPA 3060A	

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	39.58	99	80-120	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/14/21 18:30
Type: MS	Diln Fac: 5.000	Analyzed: 07/15/21 14:52
MSS Lab ID: 447836-001	Batch#: 270632	Prep: EPA 3060A
Lab ID: QC934469	Sampled: 07/09/21 08:30	Analysis: EPA 7196A
Matrix: Soil	Received: 07/12/21	Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	37.50	94	75-125	mg/Kg

Field ID: 3-SOIL-03	Basis: as received	Prepared: 07/14/21 18:30
Type: MSD	Diln Fac: 5.000	Analyzed: 07/15/21 14:52
MSS Lab ID: 447836-001	Batch#: 270632	Prep: EPA 3060A
Lab ID: QC934470	Sampled: 07/09/21 08:30	Analysis: EPA 7196A
Matrix: Soil	Received: 07/12/21	Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	37.28	93	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 449811
Report Level: II
Report Date: 10/06/2021

Analytical Report *prepared for:*

Jeff Austin
Albion Partners
401 Terry A. Francois Blvd.
Suite 110
San Francisco, CA 94158

Project: SEASIDE - Seaside

Authorized for release by:

Richard Villafania, Project Manager
richard.villafania@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member

Sample Summary

Jeff Austin
 Albion Partners
 401 Terry A. Francois Blvd.
 Suite 110
 San Francisco, CA 94158

Lab Job #: 449811
 Project No: SEASIDE
 Location: Seaside
 Date Received: 08/27/21

Sample ID	Lab ID	Collected	Matrix
5A-1-2.5-26AUG2021	449811-001	08/26/21 15:30	Soil
5A-1-7.0-26AUG2021	449811-002	08/26/21 15:35	Soil
5A-2-3.5-26AUG2021	449811-003	08/26/21 15:50	Soil
5A-2-8.0-26AUG2021	449811-004	08/26/21 16:00	Soil
5A-3-3.5-26AUG2021	449811-005	08/26/21 15:40	Soil
5A-3-8.0-26AUG2021	449811-006	08/26/21 15:45	Soil
5B-1-3.5-26AUG2021	449811-007	08/26/21 15:15	Soil
5B-1-7-26AUG2021	449811-008	08/26/21 15:20	Soil
5B-2-3.0-26AUG2021	449811-009	08/26/21 15:00	Soil
5B-2-7.0-26AUG2021	449811-010	08/26/21 15:10	Soil
5B-3-3.5-26AUG2021	449811-011	08/26/21 14:45	Soil
5B-3-7.0-26AUG2021	449811-012	08/26/21 14:50	Soil
2-1-4.0-27AUG2021	449811-013	08/27/21 08:55	Soil
2-1-7.0-27AUG2021	449811-014	08/27/21 09:00	Soil
2-2-3.5-27AUG2021	449811-015	08/27/21 09:05	Soil
2-2-7.5-27AUG2021	449811-016	08/27/21 09:10	Soil
2-3-3.5-27AUG2021	449811-017	08/27/21 08:35	Soil
2-3-7.5-27AUG2021	449811-018	08/27/21 08:40	Soil
3-1-3.0-27AUG2021	449811-019	08/27/21 08:15	Soil
3-1-7.5-27AUG2021	449811-020	08/27/21 08:20	Soil
3-2-2.5-27AUG2021	449811-021	08/27/21 08:00	Soil
3-2-7.0-27AUG2021	449811-022	08/27/21 08:05	Soil
3-3-3.0-27AUG2021	449811-023	08/27/21 07:50	Soil
3-3-7.0-27AUG2021	449811-024	08/27/21 07:55	Soil
3-4-3.0-27AUG2021	449811-025	08/27/21 07:30	Soil
3-4-7.5-27AUG2021	449811-026	08/27/21 07:40	Soil
BG-1-0.5-26AUG2021	449811-027	08/26/21 08:55	Soil
BG-1-1.0-26AUG2021	449811-028	08/26/21 09:00	Soil

Sample Summary

Jeff Austin
Albion Partners
401 Terry A. Francois Blvd.
Suite 110
San Francisco, CA 94158

Lab Job #: 449811
Project No: SEASIDE
Location: Seaside
Date Received: 08/27/21

Sample ID	Lab ID	Collected	Matrix
BG-1-1.5-26AUG2021	449811-029	08/26/21 09:05	Soil
BG-1-2.0-26AUG2021	449811-030	08/26/21 09:10	Soil
BG-2-0.5-26AUG2021	449811-031	08/26/21 09:20	Soil
BG-2-1.0-26AUG2021	449811-032	08/26/21 09:25	Soil
BG-2-1.5-26AUG2021	449811-033	08/26/21 09:30	Soil
BG-2-2.0-26AUG2021	449811-034	08/26/21 09:35	Soil
BG-3-0.5-26AUG2021	449811-035	08/26/21 09:45	Soil
BG-3-1.0-26AUG2021	449811-036	08/26/21 09:50	Soil
BG-3-1.5-26AUG2021	449811-037	08/26/21 09:55	Soil
BG-3-2.0-26AUG2021	449811-038	08/26/21 10:00	Soil
1-1-3.0-26AUG2021	449811-039	08/26/21 13:00	Soil
1-1-7.0-26AUG2021	449811-040	08/26/21 13:05	Soil
1-2-3.0-26AUG2021	449811-041	08/26/21 13:40	Soil
1-2-7.0-26AUG2021	449811-042	08/26/21 13:30	Soil
1-3-3.5-26AUG2021	449811-043	08/26/21 13:20	Soil
1-3-7.5-26AUG2021	449811-044	08/26/21 13:25	Soil
1-4-3.5-26AUG2021	449811-045	08/26/21 13:40	Soil
1-4-8.0-26AUG2021	449811-046	08/26/21 13:45	Soil
1-5-3.5-26AUG2021	449811-047	08/26/21 13:50	Soil
1-5-8.0-26AUG2021	449811-048	08/26/21 13:55	Soil
1-6-3.5-26AUG2021	449811-049	08/26/21 14:00	Soil
1-6-7.0-26AUG2021	449811-050	08/26/21 14:10	Soil
1-7-3.0-26AUG2021	449811-051	08/26/21 14:15	Soil
1-7-7.5-26AUG2021	449811-052	08/26/21 14:20	Soil
5A HARDSCAPE-3.0-26AUG2021	449811-053	08/26/21 14:20	Soil
5A HARDSCAPE-7.0-26AUG2021	449811-054	08/26/21 14:20	Soil
5B HARDSCAPE-3.0-26AUG2021	449811-055	08/26/21 14:20	Soil
5B HARDSCAPE-7.0-26AUG2021	449811-056	08/26/21 14:20	Soil

Sample Summary

Jeff Austin
 Albion Partners
 401 Terry A. Francois Blvd.
 Suite 110
 San Francisco, CA 94158

Lab Job #: 449811
 Project No: SEASIDE
 Location: Seaside
 Date Received: 08/27/21

Sample ID	Lab ID	Collected	Matrix
2 HARDSCAPE-3.0-27AUG2021	449811-057	08/26/21 14:20	Soil
2 HARDSCAPE-7.0-27AUG2021	449811-058	08/26/21 14:20	Soil
3 BUILDING-3.0-27AUG2021	449811-059	08/26/21 14:20	Soil
3 HARDSCAPE-7.0-27AUG2021	449811-060	08/26/21 14:20	Soil
BG-0.5-26AUG2021	449811-061	08/26/21 14:20	Soil
BG-1.0-26AUG2021	449811-062	08/26/21 14:20	Soil
BG-1.5-26AUG2021	449811-063	08/26/21 14:20	Soil
BG-2.0-26AUG2021	449811-064	08/26/21 14:20	Soil
1 HARDSCAPE-3.0-26AUG2021	449811-065	08/26/21 14:20	Soil
1 HARDSCAPE-7.0-26AUG2021	449811-066	08/26/21 14:20	Soil
1 BUILDING-3.0-26AUG2021	449811-067	08/26/21 14:20	Soil
1 BUILDING-7.0-26AUG2021	449811-068	08/26/21 14:20	Soil

Case Narrative

Albion Partners
401 Terry A. Francois Blvd.
Suite 110
San Francisco, CA 94158
Jeff Austin

Lab Job Number: 449811
Project No: SEASIDE
Location: Seaside
Date Received: 08/27/21

This data package contains sample and QC results for sixteen soil composites, requested for the above referenced project on 08/27/21. The samples were received cold and intact.

Metals (EPA 6010B and EPA 7471A):

High response was observed for antimony in the CCV analyzed 09/03/21 15:12; affected data was qualified with "b". Low recoveries were observed for antimony in the MS/MSD of 5A HARDSCAPE-3.0-26AUG2021 (lab # 449811-053); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Hexavalent Chromium (EPA 7196A):

No analytical problems were encountered.

Richard Villafania

From: Jeff Austin <Jeff@albionpartners.com> on behalf of Jeff Austin
Sent: Tuesday, October 5, 2021 5:31 PM
To: Richard Villafania
Subject: [EXTERNAL] lab job number 449811 - vista seaside

Categories: Need Response

Richard,
Can you re-issue this report with MDLs listed for hex chrome only?
Please advise,
Jeff Austin

Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

Chain of Custody #:

Page 1 of 14

C&T LOGIN#

Project No:

Seaside

EDD Format: standard Rpt Level: ☐ I ☐ II ☐ III ☐ IV

Turnaround Time: Standard 5 day TAT

Sampler: Ryan Fay & Jeff Austin

Report To: Jeff Austin

Company : Albion Partners

Telephone: 415-218-0027

Email: jeff@albionpartners.com

[illegible][illegible]

Notes:

SAMPLE RECEIPT

☐ Intact ☐ Cold

☐ On Ice ☐ Ambient

RELINQUISHED BY:

DATE/TIME

RECEIVED BY:

☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

12/2/8
015

DATE/TIME

[Signature]

DATE/TIME ١٢/١٢/٢٠٢٠

June 8/27/21

DATE/TIME	16/10
-----------	-------

10

DATE/TIME	1410
-----------	------

8/20/12

DATE/TIME 

clear

DATE/TIME
10:49

Page 2 of 4

Chain of Custody #:

Analytical Request

Sampler: Ryan Fay & Jeff Austin

Report To: Jeff Austin

Company : Albion Partners

Telephone: 415-218-0027

Email: jeff@albionpartners.com

Notes:	SAMPLE RECEIPT ☐ Intact ☐ Cold ☐ On Ice ☐ Ambient	RELINQUISHED BY:	RECEIVED BY:
		DATE/TIME	DATE/TIME
		<i>[Signature]</i> 8/27/21 1510	<i>[Signature]</i> 8/27/21 1510
		<i>[Signature]</i> 8/27/21 1610	<i>[Signature]</i> 8/27/21 1610
		<i>[Signature]</i> 8/30/21 1755	<i>[Signature]</i> 8/31/21 10:49

8 of 44

Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

Page 3 of 4

Analytical Request

118622

Sampler: Ryan Fay & Jeff Austin

Report To: Jeff Austin

Company : Albion Partners

Telephone: 415-218-0027

Email: jeff@albionpartners.com

Lab No.	Sample ID.	Sampling		Matrix			Chemical Preservative				
		Date	Time	Water	Soil	# of Containers	UPBW	Methanol	HNO ₃	NaOH	None
27	BG-1-0.5-26Aug2021	8/26/2021	0855		X	1				X	
28	BG-1-1.0-26Aug2021	8/26/2021	0900		X	1				X	
29	BG-1-1.5-26Aug2021	8/26/2021	0905		X	1				X	
30	BG-1-2.0-26Aug2021	8/26/2021	0910		X	1				X	
31	BG-2-0.5-26Aug2021	8/26/2021	0920		X	1				X	
32	BG-2-1.0-26Aug2021	8/26/2021	0925		X	1				X	
33	BG-2-1.5-26Aug2021	8/26/2021	0930		X	1				X	
34	BG-2-2.0-26Aug2021	8/26/2021	0935		X	1				X	
35	BG-3-0.5-26Aug2021	8/26/2021	0945		X	1				X	
36	BG-3-1.0-26Aug2021	8/26/2021	0950		X	1				X	
37	BG-3-1.5-26Aug2021	8/26/2021	0955		X	1				X	
38	BG-3-2.0-26Aug2021	8/26/2021	1000		X	1				X	

SAMPLE RECEIPT

☐ Intact ☐ Cold

☐ On Ice ☐ Ambient

RELINQUISHED BY:

RECEIVED BY:

☐ On Ice ☐ Ambient

DATE/TIME

8/27/21

DATE/TIME

8/27/10

1010

728

1

15115

DATE/TIME

1

DATE/TIME

9 of 44

(510)486-0532 Fax

Packet Page 1519 10 of 44

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 449811
Date Received: 8/27/21

Client: Albion
Project: _____



Section 2: Shipping info (if applicable)

Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☒ Yes, how many? 2 ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 8/27/21 By (print) MTC (sign) [Signature]

Section 3:

Important : Notify PM if temperature exceeds 6°C or arrive frozen.

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☒ Wet, ☐ Blue/Gel, ☐ None

Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☒ B ☐ C

Cooler Temp (°C): #1: 4.1, #2: 3.7, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:

Were custody papers dry, filled out properly, and the project identifiable

YES NO N/A

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: #15: sample label and COC don't match,

#40 #41 #42 all #40: label says 13:15 but COC says 13:05 // #41 label = 13:30

COC = 13:40 // #42: label 13:40 COC = 13:70

#44: label ok sample missing depth #

Date Logged in 8/27/21 By (print) MTC (sign) [Signature]

Date Labeled 8/27/21 By (print) MTC (sign) [Signature]



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1	
Client: <u>Albion Partners</u>	Project: <u>Seaside</u>
Date Received: <u>8/31/21</u>	Sampler's Name Present: ☒ Yes ☐ No

Section 2	
Sample(s) received in a cooler? ☒ Yes, How many? <u>2</u> ☐ No (skip section 2)	Sample Temp (°C) (No Cooler) : _____
Sample Temp (°C), One from each cooler: #1: <u>2.1</u> #2: <u>3.1</u> #3: _____ #4: _____	
<i>(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)</i>	
Shipping Information: _____	

Section 3	
Was the cooler packed with: ☒ Ice ☒ Ice Packs ☒ Bubble Wrap ☐ Styrofoam	
☐ Paper ☐ None ☐ Other _____	
Cooler Temp (°C): #1: <u>2.4</u> #2: <u>0.4</u> #3: _____ #4: _____	

Section 4	YES	NO	N/A
Was a COC received?	☒		
Are sample IDs present?	☒		
Are sampling dates & times present?	☒		
Is a relinquished signature present?	☒		
Are the tests required clearly indicated on the COC?	☒		
Are custody seals present?		☒	
If custody seals are present, were they intact?			☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	☒		
Did all samples arrive intact? If no, indicate in Section 4 below.	☒		
Did all bottle labels agree with COC? (ID, dates and times)		☒	
Were the samples collected in the correct containers for the required tests?	☒		
Are the containers labeled with the correct preservatives?			☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			☒
Was a sufficient amount of sample submitted for the requested tests?	☒		

Section 5 Explanations/Comments
See EA-Berkeley Checklist.

Section 6
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time: _____
☐ Email (email sent to/on): _____ / _____
Project Manager's response:

Completed By: [Signature] Date: _____



800-322-5555
www.gls-us.com

#4

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 554472342

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

ORANGE

COD: \$0.00

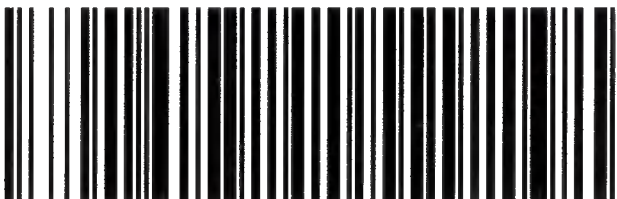
Weight: 0 lb(s)

Reference:

Delivery Instructions:

Signature Type: STANDARD

S10003H



48324082

ORC CA927-EH1

Print Date: 8/30/2021 5:59 PM

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

5.1 / 0.4

9/2/21

10.49



800-322-5555
www.gls-us.com

2

Ship From

ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 554471633

CPS



Ship To

ENTHALPY ANALYTICAL (ORG)
SAMPLE RECEIVING
931 W BARKLEY AVE.
ORANGE, CA 92868

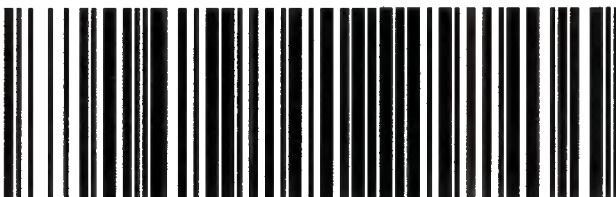
ORANGE

S10003H

COD: \$0.00

Weight: 0 lb(s)

Reference:



48317583

Delivery Instructions:

Signature Type: STANDARD

ORC CA927-EH1

Print Date: 8/30/2021 4:52 PM

Package 2 of 3

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.

Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.

Step 2: Fold this page in half.

Step 3: Securely attach this label to your package and do not cover the barcode.

8.1/2.4 8/31/21 10:49

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-053

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	24	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.8	4.8	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-7.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-054

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.8	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	19	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.53	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.53	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.53	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.2	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.2	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	15	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.53	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	10	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	11	5.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5B HARDSCAPE-3.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-055

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	17	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.6	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	1.7	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.17	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	10	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	7.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.9	5.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5B HARDSCAPE-7.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-056

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.6	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	18	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.7	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.5	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	1.6	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	7.6	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.0	5.4	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 2 HARDSCAPE-3.0-27AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-057

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.6	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	15	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.6	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.5	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	1.5	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.17	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.3	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	8.4	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	6.7	4.8	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 2 HARDSCAPE-7.0-27AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-058

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.3	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	18	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	11	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.5	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	1.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.1	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	7.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	6.9	5.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 3 BUILDING-3.0-27AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-059

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.3	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	24	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.7	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.0	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.1	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	11	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	6.3	5.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 3 HARDSCAPE-7.0-27AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-060

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.9	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	22	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	15	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.1	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	13	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.1	5.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: BG-0.5-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-061

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	42	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	3.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	7.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.9	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	12	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	14	5.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: BG-1.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-062

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.6	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	46	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.3	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	3.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	9.0	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	13	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	9.2	5.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: BG-1.5-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-063

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	43	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.3	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.5	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.7	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.9	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.50	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	13	0.99	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.2	5.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: BG-2.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-064

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	35	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.1	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.1	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.4	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.2	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.51	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	12	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.4	5.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 1 HARDSCAPE-3.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-065

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.4	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	30	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	13	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.2	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	2.1	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	5.9	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.16	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.7	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.48	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	12	0.95	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.6	4.8	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 1 HARDSCAPE-7.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-066

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.5	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	31	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	15	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	2.1	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.9	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.4	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.54	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.3	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	12	1.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.4	5.4	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 1 BUILDING-3.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-067

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.7	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	19	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.49	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.49	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	14	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.8	0.49	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.7	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.2	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	11	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.49	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	2.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.8	0.98	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	7.9	4.9	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 1 BUILDING-7.0-26AUG2021

Matrix: Soil

Diln Fac: 1.000

Received: 08/27/21

Lab ID: 449811-068

Basis: as received

Sampled: 08/26/21

Prepared: 09/02/21

Analyte	Result	RL	Units	Batch#	Analyzed	Prep	Analysis	Analyst
Antimony	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Arsenic	1.2	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Barium	21	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Beryllium	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cadmium	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Chromium	12	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Cobalt	1.9	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Copper	1.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Lead	2.3	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Mercury	ND	0.15	mg/Kg	273295	09/02/21	METHOD	EPA 7471A	TNN
Molybdenum	ND	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Nickel	8.3	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Selenium	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Silver	ND	0.52	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Thallium	ND	3.1	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Vanadium	9.8	1.0	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN
Zinc	8.5	5.2	mg/Kg	273288	09/03/21	EPA 3050B	EPA 6010B	KLN

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Type: BLANK

Batch#: 273288

Analysis: EPA 6010B

Lab ID: QC941880

Prepared: 09/02/21

Analyst: KLN

Matrix: Soil

Analyzed: 09/03/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Result	RL	Units
Antimony	ND	3.0	mg/Kg
Arsenic	ND	1.0	mg/Kg
Barium	ND	1.0	mg/Kg
Beryllium	ND	0.50	mg/Kg
Cadmium	ND	0.50	mg/Kg
Chromium	ND	1.0	mg/Kg
Cobalt	ND	0.50	mg/Kg
Copper	ND	1.0	mg/Kg
Lead	ND	1.0	mg/Kg
Molybdenum	ND	1.0	mg/Kg
Nickel	ND	1.0	mg/Kg
Selenium	ND	3.0	mg/Kg
Silver	ND	0.50	mg/Kg
Thallium	ND	3.0	mg/Kg
Vanadium	ND	1.0	mg/Kg
Zinc	ND	5.0	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

California Title 22 Metals: Batch QC

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Type: LCS

Batch#: 273288

Analysis: EPA 6010B

Lab ID: QC941881

Prepared: 09/02/21

Analyst: KLN

Matrix: Soil

Analyzed: 09/03/21

Diln Fac: 1.000

Prep: EPA 3050B

Analyte	Spiked	Result	%REC	Limits	Units	Qual
Antimony	100.0	108.4	108	80-120	mg/Kg	b
Arsenic	100.0	103.0	103	80-120	mg/Kg	
Barium	100.0	103.4	103	80-120	mg/Kg	
Beryllium	100.0	101.2	101	80-120	mg/Kg	
Cadmium	100.0	100.4	100	80-120	mg/Kg	
Chromium	100.0	98.62	99	80-120	mg/Kg	
Cobalt	100.0	104.4	104	80-120	mg/Kg	
Copper	100.0	99.98	100	80-120	mg/Kg	
Lead	100.0	101.4	101	80-120	mg/Kg	
Molybdenum	100.0	103.7	104	80-120	mg/Kg	
Nickel	100.0	104.8	105	80-120	mg/Kg	
Selenium	100.0	91.96	92	80-120	mg/Kg	
Silver	50.00	49.09	98	80-120	mg/Kg	
Thallium	100.0	108.8	109	80-120	mg/Kg	
Vanadium	100.0	105.2	105	80-120	mg/Kg	
Zinc	100.0	108.4	108	80-120	mg/Kg	

Legend

b: See narrative

California Title 22 Metals: Batch QC

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21

Type: MS

DiIn Fac: 1.000

Analyzed: 09/03/21

MSS Lab ID: 449811-053

Batch#: 273288

Prep: EPA 3050B

Lab ID: QC941882

Sampled: 08/26/21

Analysis: EPA 6010B

Matrix: Soil

Received: 08/27/21

Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	Qual
Antimony	<1.524	93.46	49.21	53 *	75-125	mg/Kg	b
Arsenic	1.715	93.46	101.7	107	75-125	mg/Kg	
Barium	23.52	93.46	118.7	102	75-125	mg/Kg	
Beryllium	0.2596	93.46	97.32	104	75-125	mg/Kg	
Cadmium	<0.08952	93.46	96.34	103	75-125	mg/Kg	
Chromium	12.85	93.46	109.9	104	75-125	mg/Kg	
Cobalt	2.217	93.46	100.3	105	75-125	mg/Kg	
Copper	1.785	93.46	97.73	103	75-125	mg/Kg	
Lead	2.103	93.46	97.11	102	75-125	mg/Kg	
Molybdenum	<0.5619	93.46	97.28	104	75-125	mg/Kg	
Nickel	11.02	93.46	112.1	108	75-125	mg/Kg	
Selenium	<1.714	93.46	88.50	95	75-125	mg/Kg	
Silver	<0.1524	46.73	45.09	97	75-125	mg/Kg	
Thallium	<1.048	93.46	101.4	108	75-125	mg/Kg	
Vanadium	10.57	93.46	112.4	109	75-125	mg/Kg	
Zinc	7.792	93.46	109.1	108	75-125	mg/Kg	

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21

Type: MSD

DiIn Fac: 1.000

Analyzed: 09/03/21

MSS Lab ID: 449811-053

Batch#: 273288

Prep: EPA 3050B

Lab ID: QC941883

Sampled: 08/26/21

Analysis: EPA 6010B

Matrix: Soil

Received: 08/27/21

Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Antimony	96.15	46.52	48 *	75-125	mg/Kg	8	41	b
Arsenic	96.15	103.5	106	75-125	mg/Kg	1	35	
Barium	96.15	122.6	103	75-125	mg/Kg	1	20	
Beryllium	96.15	98.97	103	75-125	mg/Kg	1	20	
Cadmium	96.15	97.99	102	75-125	mg/Kg	1	20	
Chromium	96.15	111.1	102	75-125	mg/Kg	1	20	
Cobalt	96.15	102.0	104	75-125	mg/Kg	1	20	
Copper	96.15	100.2	102	75-125	mg/Kg	0	20	
Lead	96.15	98.46	100	75-125	mg/Kg	1	20	
Molybdenum	96.15	98.51	102	75-125	mg/Kg	2	20	
Nickel	96.15	114.4	107	75-125	mg/Kg	1	20	
Selenium	96.15	90.84	94	75-125	mg/Kg	0	20	
Silver	48.08	46.46	97	75-125	mg/Kg	0	20	
Thallium	96.15	102.8	107	75-125	mg/Kg	1	20	
Vanadium	96.15	115.4	109	75-125	mg/Kg	0	20	
Zinc	96.15	110.9	107	75-125	mg/Kg	1	20	

California Title 22 Metals: Batch QC**Lab #:** 449811**Project#:** SEASIDE**Client:** Albion Partners**Location:** Seaside

Legend

*: Value is outside QC limits

RPD: Relative Percent Difference**b:** See narrative

California Title 22 Metals: Batch QC**Lab #:** 449811**Client:** Albion Partners**Project#:** SEASIDE**Location:** Seaside**Type:** BLANK**Batch#:** 273295**Analysis:** EPA 7471A**Lab ID:** QC941901**Prepared:** 09/02/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 09/02/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

California Title 22 Metals: Batch QC**Lab #:** 449811**Project#:** SEASIDE**Client:** Albion Partners**Location:** Seaside**Type:** LCS**Batch#:** 273295**Analysis:** EPA 7471A**Lab ID:** QC941902**Prepared:** 09/02/21**Analyst:** TNN**Matrix:** Soil**Analyzed:** 09/02/21**Diln Fac:** 1.000**Prep:** METHOD

Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.8092	97	80-120	mg/Kg

California Title 22 Metals: Batch QC

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21

Type: MS

Diln Fac: 1.000

Analyzed: 09/02/21

MSS Lab ID: 449811-053

Batch#: 273295

Prep: METHOD

Lab ID: QC941903

Sampled: 08/26/21

Analysis: EPA 7471A

Matrix: Soil

Received: 08/27/21

Analyst: TNN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.04499	0.9804	0.9224	94	75-125	mg/Kg

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21

Type: MSD

Diln Fac: 1.000

Analyzed: 09/02/21

MSS Lab ID: 449811-053

Batch#: 273295

Prep: METHOD

Lab ID: QC941904

Sampled: 08/26/21

Analysis: EPA 7471A

Matrix: Soil

Received: 08/27/21

Analyst: TNN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.9434	0.8991	95	75-125	mg/Kg	1	20

Legend

RPD: Relative Percent Difference

Hexavalent Chromium

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273387

Prep: EPA 3060A

Lab ID: 449811-053

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5A HARDSCAPE-7.0-26AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273388

Prep: EPA 3060A

Lab ID: 449811-054

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5B HARDSCAPE-3.0-26AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 18:00

Type: SAMPLE

Batch#: 273389

Prep: EPA 3060A

Lab ID: 449811-055

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 18:00

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 5B HARDSCAPE-7.0-26AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273387

Prep: EPA 3060A

Lab ID: 449811-056

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 2 HARDSCAPE-3.0-27AUG2021

Diln Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273387

Prep: EPA 3060A

Lab ID: 449811-057

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 449811

Client: Albion Partners

Project#: SEASIDE

Location: Seaside

Field ID: 2 HARDSCAPE-7.0-27AUG2021

Type: SAMPLE

Lab ID: 449811-058

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 3 BUILDING-3.0-27AUG2021

Type: SAMPLE

Lab ID: 449811-059

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	0.28 J	0.80	0.26	mg/Kg

Field ID: 3 HARDSCAPE-7.0-27AUG2021

Type: SAMPLE

Lab ID: 449811-060

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	4.7	0.80	0.26	mg/Kg

Field ID: BG-0.5-26AUG2021

Type: SAMPLE

Lab ID: 449811-061

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: BG-1.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-062

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 449811

Client: Albion Partners

Project#: SEASIDE

Location: Seaside

Field ID: BG-1.5-26AUG2021

Type: SAMPLE

Lab ID: 449811-063

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: BG-2.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-064

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1 HARDSCAPE-3.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-065

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1 HARDSCAPE-7.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-066

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Field ID: 1 BUILDING-3.0-26AUG2021

Type: SAMPLE

Lab ID: 449811-067

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Hexavalent Chromium

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 1 BUILDING-7.0-26AUG2021

DiIn Fac: 1.000

Analyzed: 09/03/21 17:33

Type: SAMPLE

Batch#: 273387

Prep: EPA 3060A

Lab ID: 449811-068

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Basis: as received

Prepared: 09/02/21 11:25

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 273387

Analysis: EPA 7196A

Lab ID: QC942155

Prepared: 09/02/21 11:25

Analyst: ATP

Matrix: Soil

Analyzed: 09/03/21 17:33

DiIn Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 273388

Analysis: EPA 7196A

Lab ID: QC942159

Prepared: 09/02/21 11:25

Analyst: ATP

Matrix: Soil

Analyzed: 09/03/21 17:33

DiIn Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Type: BLANK

Batch#: 273389

Analysis: EPA 7196A

Lab ID: QC942163

Prepared: 09/02/21 18:00

Analyst: ATP

Matrix: Soil

Analyzed: 09/03/21 18:00

DiIn Fac: 1.000

Prep: EPA 3060A

Analyte	Result	RL	MDL	Units
Hexavalent Chromium	ND	0.80	0.26	mg/Kg

Legend

J: Estimated value

MDL: Method Detection Limit

ND: Not Detected at or above MDL

RL: Reporting Limit

Hexavalent Chromium: Batch QC

Lab #: 449811

Client: Albion Partners

Project#: SEASIDE

Location: Seaside

Type: LCS

Lab ID: QC942156

Matrix: Soil

Diln Fac: 5.000

Batch#: 273387

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	43.98	110	80-120	mg/Kg

Type: LCS

Lab ID: QC942160

Matrix: Soil

Diln Fac: 5.000

Batch#: 273388

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	42.78	107	80-120	mg/Kg

Type: LCS

Lab ID: QC942164

Matrix: Soil

Diln Fac: 1.000

Batch#: 273389

Prepared: 09/02/21 18:00

Analyzed: 09/03/21 18:00

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	40.00	44.76	112	80-120	mg/Kg

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Type: MS

MSS Lab ID: 449811-053

Lab ID: QC942157

Matrix: Soil

Basis: as received

Diln Fac: 5.000

Batch#: 273387

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	45.95	115	75-125	mg/Kg

Field ID: 5A HARDSCAPE-7.0-26AUG2021

Type: MS

MSS Lab ID: 449811-054

Lab ID: QC942161

Matrix: Soil

Basis: as received

Diln Fac: 5.000

Batch#: 273388

Sampled: 08/26/21 14:20

Received: 08/27/21

Prepared: 09/02/21 11:25

Analyzed: 09/03/21 17:33

Prep: EPA 3060A

Analysis: EPA 7196A

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	39.75	99	75-125	mg/Kg

Hexavalent Chromium: Batch QC

Lab #: 449811

Project#: SEASIDE

Client: Albion Partners

Location: Seaside

Field ID: 5B HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21 18:00

Type: MS

Diln Fac: 1.000

Analyzed: 09/03/21 18:00

MSS Lab ID: 449811-055

Batch#: 273389

Prep: EPA 3060A

Lab ID: QC942165

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Hexavalent Chromium	<0.8000	40.00	42.12	105	75-125	mg/Kg

Field ID: 5A HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21 11:25

Type: MSD

Diln Fac: 5.000

Analyzed: 09/03/21 17:33

MSS Lab ID: 449811-053

Batch#: 273387

Prep: EPA 3060A

Lab ID: QC942158

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	46.18	115	75-125	mg/Kg	1	20

Field ID: 5A HARDSCAPE-7.0-26AUG2021

Basis: as received

Prepared: 09/02/21 11:25

Type: MSD

Diln Fac: 5.000

Analyzed: 09/03/21 17:33

MSS Lab ID: 449811-054

Batch#: 273388

Prep: EPA 3060A

Lab ID: QC942162

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	39.77	99	75-125	mg/Kg	0	20

Field ID: 5B HARDSCAPE-3.0-26AUG2021

Basis: as received

Prepared: 09/02/21 18:00

Type: MSD

Diln Fac: 1.000

Analyzed: 09/03/21 18:00

MSS Lab ID: 449811-055

Batch#: 273389

Prep: EPA 3060A

Lab ID: QC943413

Sampled: 08/26/21 14:20

Analysis: EPA 7196A

Matrix: Soil

Received: 08/27/21

Analyst: ATP

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Hexavalent Chromium	40.00	41.99	105	75-125	mg/Kg	0	20

Legend

RPD: Relative Percent Difference



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 454491
Report Level: II
Report Date: 12/10/2021

Analytical Report *prepared for:*

Jeff Austin
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Authorized for release by:

Sophia Baughman, Project Manager Assistant
sophia.baughman@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE
Member



Sample Summary

Jeff Austin
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 454491
Date Received: 12/03/21

Sample ID	Lab ID	Collected	Matrix
BG-4-0.5-2DEC2021	454491-001	12/02/21 12:30	Soil
BG-4-1.0-2DEC2021	454491-002	12/02/21 12:35	Soil
BG-4-1.5-2DEC2021	454491-003	12/02/21 12:40	Soil
BG-4-2.0-2DEC2021	454491-004	12/02/21 12:45	Soil
BG-5-0.5-2DEC2021	454491-005	12/02/21 13:16	Soil
BG-5-1.0-2DEC2021	454491-006	12/02/21 13:24	Soil
BG-5-1.5-2DEC2021	454491-007	12/02/21 13:29	Soil
BG-5-2.0-2DEC2021	454491-008	12/02/21 13:35	Soil
BG-6-0.5-2DEC2021	454491-009	12/02/21 13:46	Soil
BG-6-1.0-2DEC2021	454491-010	12/02/21 13:49	Soil
BG-6-1.5-2DEC2021	454491-011	12/02/21 13:54	Soil
BG-6-2.0-2DEC2021	454491-012	12/02/21 13:59	Soil

Case Narrative

Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577
Jeff Austin

Lab Job Number: 454491
Date Received: 12/03/21

This data package contains sample and QC results for twelve soil samples, requested for the above referenced project on 12/03/21. The samples were received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.

Detection Summary

Jeff Austin
Vista Environmental
2984 Teagarden Street
San Leandro, CA 94577

Lab Job #: 454491
Date Received: 12/03/21

Sample ID: BG-4-0.5-2DEC2021

Lab ID: 454491-001

Collected: 12/02/21 12:30

Matrix: Soil

454491-001 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.8

mg/Kg

1.1

Sample ID: BG-4-1.0-2DEC2021

Lab ID: 454491-002

Collected: 12/02/21 12:35

Matrix: Soil

454491-002 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.6

mg/Kg

1.1

Sample ID: BG-4-1.5-2DEC2021

Lab ID: 454491-003

Collected: 12/02/21 12:40

Matrix: Soil

454491-003 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.9

mg/Kg

0.86

Sample ID: BG-4-2.0-2DEC2021

Lab ID: 454491-004

Collected: 12/02/21 12:45

Matrix: Soil

454491-004 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.9

mg/Kg

0.93

Sample ID: BG-5-0.5-2DEC2021

Lab ID: 454491-005

Collected: 12/02/21 13:16

Matrix: Soil

454491-005 Analyte

Result

Qual

Units

RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.5

mg/Kg

0.89

Detection Summary

Sample ID: BG-5-1.0-2DEC2021
Lab ID: 454491-006
Collected: 12/02/21 13:24
Matrix: Soil
454491-006 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.6

mg/Kg

1.0

Sample ID: BG-5-1.5-2DEC2021
Lab ID: 454491-007
Collected: 12/02/21 13:29
Matrix: Soil
454491-007 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.5

mg/Kg

0.88

Sample ID: BG-5-2.0-2DEC2021
Lab ID: 454491-008
Collected: 12/02/21 13:35
Matrix: Soil
454491-008 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.5

mg/Kg

0.90

Sample ID: BG-6-0.5-2DEC2021
Lab ID: 454491-009
Collected: 12/02/21 13:46
Matrix: Soil
454491-009 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.5

mg/Kg

0.88

Sample ID: BG-6-1.0-2DEC2021
Lab ID: 454491-010
Collected: 12/02/21 13:49
Matrix: Soil
454491-010 Analyte
Result
Qual
Units
RL

Method: EPA 6010B

Prep Method: EPA 3050B

Arsenic

1.3

mg/Kg

0.84

Detection Summary

Sample ID: BG-6-1.5-2DEC2021	Lab ID: 454491-011	Collected: 12/02/21 13:54
	Matrix: Soil	

454491-011 Analyte	Result	Qual	Units	RL
Method: EPA 6010B				
Prep Method: EPA 3050B				
Arsenic	1.4		mg/Kg	0.98

Sample ID: BG-6-2.0-2DEC2021	Lab ID: 454491-012	Collected: 12/02/21 13:59
	Matrix: Soil	

454491-012 Analyte	Result	Qual	Units	RL
Method: EPA 6010B				
Prep Method: EPA 3050B				
Arsenic	1.3		mg/Kg	0.96

Curtis & Tompkins, Ltd.
Analytical Laboratory Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510)486-0900 Phone
(510)486-0532 Fax

CHAIN OF CUSTODY

Page 1 of 1

Chain of Custody #:

Analytical Request

C&T LOGIN # 454491

Project No:

Seaside

EDD Format: standard Rpt Level: ☐ II ☐ III ☐ IV

Turnaround Time: Standard 5 day TAT

Sampler: Jeff Austin

Report To: Jeff Austin

Company : Vista

Telephone: 415-218-0027

Email: jeff@vista-env.com

Lab No.	Sample ID.	Sampling		Matrix		Chemical Preservative			
		Date	Time	Water	Soil	# of Containers	UPBW	Methanol	HNO ₃
1	BG-4-0.5-2Dec2021	12/2/2021	1230	X		1			X
2	BG-4-1.0-2Dec2021	12/2/2021	1235	X		1			X
3	BG-4-1.5-2Dec2021	12/2/2021	1240	X		1			X
4	BG-4-2.0-2Dec2021	12/2/2021	1245	X		1			X
5	BG-5-0.5-2Dec2021	12/2/2021	1316	X		1			X
6	BG-5-1.0-2Dec2021	12/2/2021	1324	X		1			X
7	BG-5-1.5-2Dec2021	12/2/2021	1329	X		1			X
8	BG-5-2.0-2Dec2021	12/2/2021	1335	X		1			X
9	BG-6-0.5-2Dec2021	12/2/2021	1346	X		1			X
10	BG-6-1.0-2Dec2021	12/2/2021	1349	X		1			X
11	BG-6-1.5-2Dec2021	12/2/2021	1354	X		1			X
12	BG-6-2.0-2Dec2021	12/2/2021	1359	X		1			X

Notes:

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient

RELINQUISHED BY:

RECEIVED BY:

DATE/TIME 12/3/21 1020 DATE/TIME 12/3/21 1525
DATE/TIME 12/3/21 1736 DATE/TIME 12/4/21 09:00

SAMPLE RECEIPT CHECKLISTSection 1: Login # 454491
Date Received: 12/3/21Client: Vista
Project: _____**Section 2: Shipping info (if applicable)**Are custody seals present? ☒ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ NoneWere custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/ASamples received in a cooler? ☒ Yes, how many? 1 ☐ No (skip Section 3 below)If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C☐ Samples received on ice directly from the field. Cooling process had begunIf in cooler: Date Opened 12/3/21 By (print) MY (sign) _____**Section 3:****Important : Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☒ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels☐ Samples received on ice directly from the field. Cooling process had begunType of ice used: ☒ Wet, ☐ Blue/Gel, ☐ NoneTemperature blank(s) included? ☐ Yes, ☐ NoTemperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ CCooler Temp (°C): #1: 5.6, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____**Section 4:**

Were custody papers dry, filled out properly, and the project identifiable

Were Method 5035 sampling containers present?

If YES, what time were they transferred to freezer? _____

Did all bottles arrive unbroken/unopened?

Are there any missing / extra samples?

Are samples in the appropriate containers for indicated tests?

Are sample labels present, in good condition and complete?

Does the container count match the COC?

Do the sample labels agree with custody papers?

Was sufficient amount of sample sent for tests requested?

Did you change the hold time in LIMS for unpreserved VOAs?

Did you change the hold time in LIMS for preserved terracores?

Are bubbles > 6mm present in VOA samples?

Was the client contacted concerning this sample delivery?

If YES, who was called? _____ By _____ Date: _____

Section 5:

Are the samples appropriately preserved? (if N/A, skip the rest of section 5)

Did you check preservatives for all bottles for each sample?

Did you document your preservative check?

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____☐ HCL lot# _____ added to samples _____ on/at _____☐ HNO3 lot# _____ added to samples _____ on/at _____☐ NaOH lot# _____ added to samples _____ on/at _____**Section 6:**

Explanations/Comments: _____

Date Logged in 12/3/21By (print) MY for SHD (sign) _____Date Labeled 12/3/21By (print) MY (sign) _____



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: VistaProject: SeasideDate Received: 12/04/21Sampler's Name Present: ☒ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☒ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler) : _____Sample Temp (°C), One from each cooler: #1: 3.5 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Grayhound

Section 3

Was the cooler packed with: ☒ Ice ☒ Ice Packs ☒ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____Cooler Temp (°C): #1: 1.4 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	☒	☐	☐
Are sample IDs present?	☒	☐	☐
Are sampling dates & times present?	☒	☐	☐
Is a relinquished signature present?	☒	☐	☐
Are the tests required clearly indicated on the COC?	☒	☐	☐
Are custody seals present?	☐	☒	☐
If custody seals are present, were they intact?	☐	☐	☒
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	☒	☐	☐
Did all samples arrive intact? If no, indicate in Section 4 below.	☒	☐	☐
Did all bottle labels agree with COC? (ID, dates and times)	☒	☐	☐
Were the samples collected in the correct containers for the required tests?	☒	☐	☐
Are the containers labeled with the correct preservatives?	☐	☐	☒
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	☐	☐	☒
Was a sufficient amount of sample submitted for the requested tests?	☒	☐	☐

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____
☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: [Signature]Date: 12/04/21

STD PPD

03DEC21 07:09P

** LABEL **

Pcs: 6 of 9

Schd: GLI 6849

GLI 3089816092

LOS ANGELES, CA



Coder #4
1.4/95

From: Enthalpy Analytical - Orange
925-487-8029

RECV: ENTHALPY ANALYTICAL LLC

931 W BARKLEY AVE

Manual Wght:

354.0

Tariff Wght:

354.0

ORANGE, CA 92868

Phone: 925-487-8029

PO/Ref #:

Standard

Agency Phone: (213) 629-8420

WWW.SHIPGREYHOUND.COM

Arsenic

Lab #: 454491

Client: Vista Environmental

Project#: STANDARD

Location:
Field ID: BG-4-0.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-001

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.8	1.1	mg/Kg

Field ID: BG-4-1.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-002

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.6	1.1	mg/Kg

Field ID: BG-4-1.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-003

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.9	0.86	mg/Kg

Field ID: BG-4-2.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-004

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.9	0.93	mg/Kg

Field ID: BG-5-0.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-005

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.5	0.89	mg/Kg

Arsenic

Lab #: 454491

Client: Vista Environmental

Project#: STANDARD

Location:
Field ID: BG-5-1.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-006

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.6	1.0	mg/Kg

Field ID: BG-5-1.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-007

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.5	0.88	mg/Kg

Field ID: BG-5-2.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-008

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.5	0.90	mg/Kg

Field ID: BG-6-0.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-009

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.5	0.88	mg/Kg

Field ID: BG-6-1.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-010

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.3	0.84	mg/Kg

Arsenic

Lab #: 454491

Client: Vista Environmental

Project#: STANDARD

Location:
Field ID: BG-6-1.5-2DEC2021

Type: SAMPLE

Lab ID: 454491-011

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.4	0.98	mg/Kg

Field ID: BG-6-2.0-2DEC2021

Type: SAMPLE

Lab ID: 454491-012

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	1.3	0.96	mg/Kg

Type: BLANK

Lab ID: QC959082

Matrix: Soil

Diln Fac: 1.000

Batch#: 279243

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	ND	1.0	mg/Kg

Type: BLANK

Lab ID: QC959087

Matrix: Soil

Diln Fac: 1.000

Batch#: 279244

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Result	RL	Units
Arsenic	ND	1.0	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

Arsenic: Batch QC

Lab #: 454491

Client: Vista Environmental

Project#: STANDARD

Location:
Type: LCS

Lab ID: QC959083

Matrix: Soil

Diln Fac: 1.000

Batch#: 279243

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units
Arsenic	100.0	101.6	102	80-120	mg/Kg

Type: LCS

Lab ID: QC959088

Matrix: Soil

Diln Fac: 1.000

Batch#: 279244

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units
Arsenic	100.0	102.1	102	80-120	mg/Kg

Field ID: ZZZZZZZZZZ

Type: MS

MSS Lab ID: 454449-001

Lab ID: QC959084

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Arsenic	<0.6442	92.59	101.7	110	75-125	mg/Kg

Field ID: BG-6-1.0-2DEC2021

Type: MS

MSS Lab ID: 454491-010

Lab ID: QC959089

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279244

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Arsenic	1.340	90.09	95.83	105	75-125	mg/Kg

Field ID: ZZZZZZZZZZ

Type: MSD

MSS Lab ID: 454449-001

Lab ID: QC959085

Matrix: Soil

Basis: as received

Diln Fac: 1.000

Batch#: 279243

Sampled: 12/02/21

Received: 12/03/21

Prepared: 12/04/21

Analyzed: 12/06/21

Prep: EPA 3050B

Analysis: EPA 6010B

Analyst: KLN

Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Arsenic	106.4	110.4	104	75-125	mg/Kg	6	35

DOCUMENT 004113

BID FORM

TO CITY OF SEASIDE

THIS BID IS SUBMITTED BY:

(Firm/Company Name)

Re: City of Seaside **Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A** located in Seaside, California 93955.

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the City of Seaside in the form included in the Contract Documents, Document 005200 (Agreement), to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Sum and within the Contract Time indicated in this Bid and in accordance with all other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Contract Documents, Document 001000 (Notice Inviting Bids), and Document 002113 (Instructions to Bidders), including, without limitation, those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for 90 Days after the day of Bid opening, unless there is a bid protest, then 120 days after the day of bid opening.
3. In submitting this Bid, Bidder represents that Bidder has examined all of the Contract Documents, performed all necessary Pre-Bid investigations, received the Pre-Bid conference minutes (if any), and received the following Addenda:

Addendum Number	<u>ADDENDUM DATE</u>	Signature of Bidder

4. Based on the foregoing, Bidder proposes and agrees to fully perform the Work within the time stated and in strict accordance with the Contract Documents for the following sums of money listed in the following Schedule of Bid Prices:

SCHEDULE OF BID PRICES

All Bid items, including lump sums and unit prices, must be filled in completely. Bid items are described in Section 01 1100 (Summary of Work). Quote in figures only, unless words are specifically requested.

ITEM #	BID ITEM	EST. QTY.	UNIT	UNIT PRICE	TOTAL
1	Mobilization, bonds, permits and insurance and demobilization on all work, complete at	---	LS		
2	Traffic Control Planning and Implementation	---	LS		
3	Water Pollution and Erosion Control	---	LS		
4	QSP SWPPP Reporting	---	LS		
5	Subsurface Utility Location and Potholing	---	LS		
6	Structure/Building Deconstruction, Demolition, Removal, and Proper Disposal	---	LS		
7	Proper Removal and Disposal of Asbestos-Containing Materials Associated with Bid Item No. 6	---	LS		
8	Proper Removal and Disposal of Lead-Based Paint and Lead-Containing Materials Associated with Bid Item No. 6	---	LS		
9	Proper Removal and Disposal of Other Hazardous Materials Abatement (Universal Waste Materials, PCBs, Ozone-Depleting Devices, Miscellaneous)	---	LS		
10	Waste Characterization Sampling and Segregation Activities (Hazardous Materials), As Required by Law	---	LS		
11	Asphalt Concrete Pavement Demolition, Removal, and Proper Disposal	---	LS		
12	Parking Lot Lights Disassembly, Removal, and Proper Disposal	2	EA		
13	Sawcutting Existing Asphalt Concrete Pavement	90	LF		
14	Water System Utilities (Including Asbestos-Cement Piping) Demolition, Removal, and Proper Disposal	---	LS		
15	Water Main Disconnection, Cut, and Cap (South of Visitor Center, Off-Site)	1	EA		
16	Sanitary Sewer System Utilities Demolition, Removal, and Proper Disposal	---	LS		
17	Sanitary Sewer Manhole Cut and Plug	1	EA		

18	Telecommunication Utilities Disconnection, Demolition, Removal, and Proper Disposal	---	LS		
19	Disconnect, Cut, and Cap Utilities Per Utility Owner Requirements	4	EA		
20	Construction Field Survey and Reporting (Initial and Secondary Over-Excavations)	2	EA		
21	Over-Excavation Beneath Hardscape Area to 2'-0" Depth, Stockpile Soil, Protect Stockpile	1,960	CY		
22	Over-Excavation Beneath building Area to 2'-0" Depth, Stockpile Soil, Protect Stockpile	325	CY		
23	Load, Transport and Dispose of Soil as CA Class II Non-Hazardous Waste. Waste Characterization is Performed by Others		Tons		
24	Removal of Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Within 5'-0" of Structure/Building (Level With Ground Surface, Does Not Include Root Systems)	---	LS		
25	Removal of All Other Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Not Including Bid Item No. 27 (Including Root Systems)	---	LS		
26	Tree Protection Fencing	450	LF		
27	Type "A" Asphalt Concrete Berm/Dike	80	LF		
28	Final Site Grading and Preparation	---	LS		
29	Permit and Testing Allowance – Reimbursement for the actual cost of required permits and laboratory testing.	---	ALW	\$5,000	\$5,000
TOTAL					
The TOTAL BASE BID AMOUNT described in words is:					
_____ and _____/100 DOLLARS)					

*Item not subject to unit price quantities "less than 75 percent or greater than 125 percent of the estimated quantities bid" as outlined in Section 012000, 1.03.B "Unit Price Items".

5. Subcontractors for work included in all Bid items are listed on Document 004330 (Subcontractors List) submitted herewith.
6. The undersigned Bidder understands that Owner reserves the right to reject this Bid.
7. If written notice of the acceptance of this Bid, hereinafter referred to as Notice of Award, is mailed or delivered to the undersigned Bidder within the time described in Paragraph 2 of this Document

004113 or at any other time thereafter before it is withdrawn, the undersigned Bidder will execute and deliver the documents required by Document 002113 (Instructions to Bidders) within the times specified therein.

8. Notice of Award or request for additional information may be addressed to the undersigned Bidder at the address set forth below.
9. The undersigned Bidder herewith encloses cash, a cashier's check, or certified check of or on a responsible bank in the United States, or a corporate surety bond furnished by a surety authorized to do a surety business in the State of California, in form specified in Document 002113 (Instructions to Bidders), in the amount of ten percent (10%) of the Total Bid Price and made payable to the City of Seaside.
10. The undersigned Bidder agrees to commence Work under the Contract Documents on the date established in Document 007200 (General Conditions) and to complete all Work within the time specified in Document 005200 (Agreement).
11. The undersigned Bidder agrees that, in accordance with Document 007200 (General Conditions), liquidated damages for failure to complete all Work in the Contract within the time specified in Document 005200 (Agreement) shall be as set forth in Document 005200.
12. The names of all persons interested in the foregoing Bid as principals are:

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, give the legal name of corporation, state where incorporated, and names of president and secretary thereof; if a partnership, give name of the firm and names of all individual co-partners composing the firm; if Bidder or other interested person is an individual, give first and last names in full.

NAME OF BIDDER: _____ licensed in accordance with
an act for the registration of Contractors, and with license number: _____, with
Expiration: _____.

(Place of Incorporation, if Applicable)

(Principal, Name/Title)

(Principal, Name/Title)

(Principal, Name/Title)

NOTE: If Bidder is a corporation, set forth the legal name of the corporation together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If Bidder is a partnership, set forth the name of the firm together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership.

Business Address: _____

Contractor's Representative(s):

(Name/Title)

(Name/Title)

(Name/Title)

Officers Authorized to Sign Contracts

(Name/Title)

(Name/Title)

(Name/Title)

Telephone Number(s):

(Area Code)

(Number)

(Area Code)

(Number)

Fax Number(s):

(Area Code)

(Number)

(Area Code)

(Number)

Date of Bid:

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

(Signature of Bidder)

Name / Title

END OF DOCUMENT

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City of Seaside



Harris & Associates

FORT ORD MILITARY RESERVATION PROPERTY DECONSTRUCTION AND DEMOLITION PROJECT PHASE 1A

ADDENDUM NO. 02

May 17, 2022

Revisions

1. REMOVE Specification 00 4113 Bid Form (Addendum No. 01) in its entirety and REPLACE with the attached May 17, 2022 Specification 00 4113 Bid Form.

Clarifications

2. References to older dates associated with Vista Environmental Consulting's Reports shall be considered updated as provided in Addendum No. 01.
3. References and requirements pertaining to "secondary over-excavation" or those beyond 2'-0" shall be considered omitted, deleted, and/or updated based on Addendum No. 01.
4. Section 011100 *Summary* shall be considered updated, specifically with the changes to Bid Items as defined by Section 004113 Bid Form, based on Addendum No. 01.

Responses to RFI Questions

1. Are underground utilities shown on the drawings?
 - a. **Response/Answer:** Existing subsurface improvements and utilities are shown on Drawings C-1, C-3, and others as references, based on record data known to the design engineer. Please see Drawing G-2, Notes III "*Existing Conditions*", Specification 00 3132 *Geotechnical Data and Existing Conditions* Article 2 – Use of Existing Conditions Data, Specification 00 7200 *General Conditions*, Article 2.02 – Limited Reliance Permitted on Owner's Existing Conditions Data, and Specification 00 7200 *General Conditions*, Article 13 – Underground Conditions for additional information.
2. Was soil sampling done over the entire site?
 - a. **Response/Answer:** Soil sampling locations are identified and described in *Soil Sampling Report and Soil Remediation Work Plan Campus Town Development – Phase 1A*, prepared by Vista Environmental Consulting, dated May 6, 2022.

3. What is the estimated soil tonnage for the site?
 - a. Response/Answer: 3,428 tons. In Section 004113 Bid Form as provided via Addendum No. 1, please use 3,428 for Bid Item No. 23's Estimated Quantity.
4. What class of soil?
 - a. Response/Answer: The "class" of soil will remain unknown until properly sampled and tested in accordance with the Construction Contract Documents. For purposes of bidding and as shown on the re-issued Section 004113 Bid Form as provided via Addendum No. 1, bidders shall assume California Class II Non-Hazardous Waste.
5. Will the City dictate the landfill?
 - a. Response/Answer: No; however, the disposal facility or facilities selected by the Contractor for any and all material disposal must be legal, acceptable, and appropriate given the nature of the Work.
6. Was the soil surrounding the former transformer and remaining in place concrete pad tested for PCBs?
 - a. Response/Answer: Soil sampling locations are identified and described in *Soil Sampling Report and Soil Remediation Work Plan Former Fort Ord – Phase 1A*, prepared by Vista Environmental Consulting, dated May 6, 2022.
7. Will disconnect occur onsite?
 - a. Response/Answer: See Drawings C-1 and C-3 for information related to utility demolition, decommissioning, and terminations.
8. Is this all city owned property?
 - a. Response/Answer: Yes.
9. Is this a deconstruction?
 - a. Response/Answer: No, there are no prescriptive requirements for means and methods related to demolition, or requirements for salvaging and/or recycling. This Project should be considered a "demolition" Project.
10. Is a QSP / SWPPP required?
 - a. Response/Answer: A SWPPP and certified QSP is not required. Accordingly, please identify Bid Item No. 4 of Section 004113 Bid Form as provided via Addendum No. 1 as a \$0 Bid Item. However, Bid Item No. 3 *Water Pollution and Erosion Control* requirements remain, and are identified in Specification 01 5713 *Temporary Erosion and Sediment Control*, and on Drawing C-8.
11. Tree protection – own or rent?
 - a. Response/Answer: Tree protection, assuming "fencing" of such protected tree(s), shall be the responsibility of the Contractor. Owning or renting of equipment and/or material is at the Contractor's sole discretion.
12. Do you leave the tree protection in place?
 - a. Response/Answer: No. Tree protection equipment and/or materials shall be removed at Final Completion.



13. Who is providing the surveyor to ensure 2-foot depth?
 - a. Response/Answer: Construction field survey, staking, and reporting is the responsibility of the Contractor. In addition, the Work itself will be reviewed and observed by the Owner or Owner's Representative during the process outlined in the *Soil Sampling Report and Soil Remediation Work Plan Former Fort Ord – Phase 1A*, prepared by Vista Environmental Consulting, dated May 6, 2022. All construction field survey shall be performed by, signed, and stamped by a California-licensed land surveyor.
14. Is there a need for a Topo map?
 - a. Response/Answer: No.
15. Building Wood Siding- During deconstruction do you expect the same wood content after removal of stucco?
 - a. Response/Answer: Please refer to the *Hazardous Materials Survey Report Former Fort Ord – Area 1*, prepared by Vista Environmental Consulting, dated January 14, 2022. For purposes of bidding, the stucco façade should not be expected to have influenced the wood content.
16. Is it a requirement to test the building materials again?
 - a. Response/Answer: Please refer to the *Hazardous Materials Survey Report Former Fort Ord – Area 1*, prepared by Vista Environmental Consulting, dated January 14, 2022. For purposes of bidding, the building materials should not be expected to be re-tested.
17. Is there any pressure treated lumber?
 - a. Response/Answer: Yes, in building sign and some under tree area. Please refer to the *Hazardous Materials Survey Report Former Fort Ord – Area 1*, prepared by Vista Environmental Consulting, dated January 14, 2022.
18. Is there water onsite?
 - a. Response/Answer: No, but there are nearby water sources (i.e. fire hydrant assemblies); one southeast of the Visitor Center and one on other side of 2nd Avenue, off Lightfighter Drive. The Contractor is responsible for providing all temporary utilities, including water used for construction.
19. Are we capping utility lines up to the property line or are we responsible for abandoning the lines at the street?
 - a. Response/Answer: See Drawings C-1 and C-3 for information related to utility demolition, decommissioning, and terminations.
20. Are there water hook-ups onsite?
 - a. Response/Answer: No, but there are nearby water sources (i.e. fire hydrant assemblies); one southeast of the Visitor Center and one on other side of 2nd Avenue, off Lightfighter Drive. The Contractor is responsible for providing all temporary utilities, including water used for construction.
21. Is this a deconstruction or a demolition?
 - a. Response/Answer: There are no prescriptive requirements for means and methods related to demolition, or requirements for salvaging and/or recycling. This Project should be considered a "demolition" Project.

22. Are there any project labor agreements (PLA) required for this project?
- Response/Answer: No, but the successful bidder must comply with all prevailing wage laws applicable to the Project.**
23. Please verify if we need to deconstruct the building or demolish the building?
- Response/Answer: There are no prescriptive requirements for means and methods related to demolition, or requirements for salvaging and/or recycling. This Project should be considered a "demolition" Project.**
24. Please verify if we need to provide temporary chain link fencing for this project to keep the site secure?
- Response/Answer: Yes. Please see Specification 015000 *Temporary Facilities and Controls*.**
25. Please verify the tree protection fence requirements? i.e. 6' chain fence with post driven post or metal stakes with 4' orange snow fence?
- Orange vinyl construction fencing, chain-link fencing, snow fencing, or other similar fencing at least four (4') feet high and supported at a maximum of ten-foot (10') intervals by approved methods sufficient enough to keep the fence upright and in place. The fencing shall be of a highly visible material, and shall have a tree protection sign affixed to the fence every twenty (20) feet in such a manner to be clearly visible to the workers on-site.**
26. Please verify if we need to obtain an encroachment permit to cap underground utilities onsite?
- Response/Answer: An encroachment permit is not needed.**
27. Please verify if we need to provide an underground utility subcontractor to cap, grout and plug the manhole for the SS line?
- Response/Answer: The Work must be performed in accordance with the Construction Contract Documents. Contracting and subcontracting shall be determined by the Contractor, at their sole discretion, presuming all other requirements and conditions of the Construction Contract Documents are adhered to.**
28. Please verify if we need to cap the water line per detail 2 on sheet C7? Or will this be done by MCWD?
- Response/Answer: Yes, the Work must be performed, in its entirety, by the Contractor and in accordance with the Construction Contract Documents, including Work identified on Drawing C-7. Shutdowns and isolations will be performed by Marina Coast Water District prior to the Work performed by the Contractor as identified on Drawing C-7.**
29. Please verify if we need to provide hazwoper certification for the excavation scope?
- Response/Answer: Hazardous levels of chemicals have not been detected in the soil at the site. It is up to the bidding contractor to determine if HAZWOPR trained workers are needed.**
30. Please verify if we need to perform the 2' excavation first before we remove the underground utilities lines?
- Response/Answer: Please see Specification 011100 *Summary*, Section 1.06 (*Work Sequence*); utility demolition, removal and proper disposal should occur prior to 2-foot deep "over-excavations".**
31. Please verify if we need to compact the trenches with a sheepfoot roller?
- Response/Answer: Construction means and methods to achieve requirements outlined in the Construction Contract Documents are the responsibility of the Contractor. Please see Specifications 312200 *Grading* and 312323 *Fill* for requirements.**



32. Please confirm the soil removal to be priced as Class II non-haz for this project?
- Response/Answer: The “class” of soil will remain unknown until properly sampled and tested in accordance with the Construction Contract Documents. For purposes of bidding and as shown on the re-issued Section 004113 Bid Form as provided via Addendum No. 1, bidders shall assume California Class II Non-Hazardous Waste.
33. Please confirm if we need to provide a surveyor to stake the site when excavating to a depth of 2’?
- Response/Answer: Construction field survey, staking, and reporting is the responsibility of the Contractor. In addition, the Work itself will be reviewed and observed by the Owner or Owner’s Representative during the process outlined in the Soil Sampling Report and Soil Remediation Work Plan Former Fort Ord – Phase 1A, prepared by Vista Environmental Consulting, dated May 6, 2022. All construction field survey shall be performed by, signed, and stamped by a California-licensed land surveyor.
34. Please confirm the downtime of equipment or mobilizations we should factor into our bid when waiting for the analytical results for the export of the soil?
- Response/Answer: For purposes of bidding, the amount of time between soil sampling by Vista Environmental Consulting and received laboratory test results (i.e. “downtime”) shall be five (5) consecutive calendar days. Please note that this “turn-around” time is part of the eighty (80) consecutive calendar days for Completion of Work. No additional compensation will be considered for additional mobilizations; how the Contractor elects to spend his/her five (5) consecutive calendar days and complete the Work, is their sole discretion and responsibility.
35. We are a Licensed Demolition Contractor and have a CSLB with Class A & B, C21 and C12 can we bid this project and have a Sub that does the Asbestos Abatement C-22 and carry the Haz Sub Removal Certification? [Addendum No. 01 lists] a Class A License and Hazardous Substance Removal Certificate which we don’t have but our Abatement Sub does along with a C-22 License and C21v Building Moving which we do.
- Response/Answer: Yes, these licenses and/or certifications, regardless of the Prime/General Contractor and subcontractors relationships and ownerships of said licenses and/or certifications, deem the qualifications acceptable to bid the Project.

DOCUMENT 004113

BID FORM

TO CITY OF SEASIDE

THIS BID IS SUBMITTED BY:

(Firm/Company Name)

Re: City of Seaside **Fort Ord Military Reservation Property Deconstruction and Demolition Project – Phase 1A** located in Seaside, California 93955.

1. The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with the City of Seaside in the form included in the Contract Documents, Document 005200 (Agreement), to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Sum and within the Contract Time indicated in this Bid and in accordance with all other terms and conditions of the Contract Documents.
2. Bidder accepts all of the terms and conditions of the Contract Documents, Document 001000 (Notice Inviting Bids), and Document 002113 (Instructions to Bidders), including, without limitation, those dealing with the disposition of Bid Security. This Bid will remain subject to acceptance for 90 Days after the day of Bid opening, unless there is a bid protest, then 120 days after the day of bid opening.
3. In submitting this Bid, Bidder represents that Bidder has examined all of the Contract Documents, performed all necessary Pre-Bid investigations, received the Pre-Bid conference minutes (if any), and received the following Addenda:

Addendum Number	<u>ADDENDUM DATE</u>	Signature of Bidder

4. Based on the foregoing, Bidder proposes and agrees to fully perform the Work within the time stated and in strict accordance with the Contract Documents for the following sums of money listed in the following Schedule of Bid Prices:

SCHEDULE OF BID PRICES

All Bid items, including lump sums and unit prices, must be filled in completely. Bid items are described in Section 01 1100 (Summary of Work). Quote in figures only, unless words are specifically requested.

ITEM #	BID ITEM	EST. QTY.	UNIT	UNIT PRICE	TOTAL
1	Mobilization, bonds, permits and insurance and demobilization on all work, complete at	---	LS		
2	Traffic Control Planning and Implementation	---	LS		
3	Water Pollution and Erosion Control	---	LS		
4	QSP SWPPP Reporting	---	LS	\$0	\$0
5	Subsurface Utility Location and Potholing	---	LS		
6	Structure/Building Deconstruction, Demolition, Removal, and Proper Disposal	---	LS		
7	Proper Removal and Disposal of Asbestos-Containing Materials Associated with Bid Item No. 6	---	LS		
8	Proper Removal and Disposal of Lead-Based Paint and Lead-Containing Materials Associated with Bid Item No. 6	---	LS		
9	Proper Removal and Disposal of Other Hazardous Materials Abatement (Universal Waste Materials, PCBs, Ozone-Depleting Devices, Miscellaneous)	---	LS		
10	Waste Characterization Sampling and Segregation Activities (Hazardous Materials), As Required by Law	---	LS		
11	Asphalt Concrete Pavement Demolition, Removal, and Proper Disposal	---	LS		
12	Parking Lot Lights Disassembly, Removal, and Proper Disposal	2	EA		
13	Sawcutting Existing Asphalt Concrete Pavement	90	LF		
14	Water System Utilities (Including Asbestos-Cement Piping) Demolition, Removal, and Proper Disposal	---	LS		
15	Water Main Disconnection, Cut, and Cap (South of Visitor Center, Off-Site)	1	EA		
16	Sanitary Sewer System Utilities Demolition, Removal, and Proper Disposal	---	LS		
17	Sanitary Sewer Manhole Cut and Plug	1	EA		

18	Telecommunication Utilities Disconnection, Demolition, Removal, and Proper Disposal	---	LS		
19	Disconnect, Cut, and Cap Utilities Per Utility Owner Requirements	4	EA		
20	Construction Field Survey and Reporting (Initial and Secondary Over-Excavations)	2	EA		
21	Over-Excavation Beneath Hardscape Area to 2'-0" Depth, Stockpile Soil, Protect Stockpile	1,960	CY		
22	Over-Excavation Beneath building Area to 2'-0" Depth, Stockpile Soil, Protect Stockpile	325	CY		
23	Load, Transport and Dispose of Soil as CA Class II Non-Hazardous Waste. Waste Characterization is Performed by Others	3,428	Tons		
24	Removal of Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Within 5'-0" of Structure/Building (Level With Ground Surface, Does Not Include Root Systems)	---	LS		
25	Removal of All Other Existing Landscaping, Including Trees, Bushes, Shrubs, and Unknown Vegetation Not Including Bid Item No. 27 (Including Root Systems)	---	LS		
26	Tree Protection Fencing	450	LF		
27	Type "A" Asphalt Concrete Berm/Dike	80	LF		
28	Final Site Grading and Preparation	---	LS		
29	Permit and Testing Allowance – Reimbursement for the actual cost of required permits and laboratory testing.	---	ALW	\$5,000	\$5,000
TOTAL					
The TOTAL BASE BID AMOUNT described in words is:					
_____ and _____/100 DOLLARS)					

*Item not subject to unit price quantities "less than 75 percent or greater than 125 percent of the estimated quantities bid" as outlined in Section 012000, 1.03.B "Unit Price Items".

5. Subcontractors for work included in all Bid items are listed on Document 004330 (Subcontractors List) submitted herewith.
6. The undersigned Bidder understands that Owner reserves the right to reject this Bid.
7. If written notice of the acceptance of this Bid, hereinafter referred to as Notice of Award, is mailed or delivered to the undersigned Bidder within the time described in Paragraph 2 of this Document

004113 or at any other time thereafter before it is withdrawn, the undersigned Bidder will execute and deliver the documents required by Document 002113 (Instructions to Bidders) within the times specified therein.

8. Notice of Award or request for additional information may be addressed to the undersigned Bidder at the address set forth below.
9. The undersigned Bidder herewith encloses cash, a cashier's check, or certified check of or on a responsible bank in the United States, or a corporate surety bond furnished by a surety authorized to do a surety business in the State of California, in form specified in Document 002113 (Instructions to Bidders), in the amount of ten percent (10%) of the Total Bid Price and made payable to the City of Seaside.
10. The undersigned Bidder agrees to commence Work under the Contract Documents on the date established in Document 007200 (General Conditions) and to complete all Work within the time specified in Document 005200 (Agreement).
11. The undersigned Bidder agrees that, in accordance with Document 007200 (General Conditions), liquidated damages for failure to complete all Work in the Contract within the time specified in Document 005200 (Agreement) shall be as set forth in Document 005200.
12. The names of all persons interested in the foregoing Bid as principals are:

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, give the legal name of corporation, state where incorporated, and names of president and secretary thereof; if a partnership, give name of the firm and names of all individual co-partners composing the firm; if Bidder or other interested person is an individual, give first and last names in full.

NAME OF BIDDER: _____ licensed in accordance with
an act for the registration of Contractors, and with license number: _____, with
Expiration: _____.

(Place of Incorporation, if Applicable)

(Principal, Name/Title)

(Principal, Name/Title)

(Principal, Name/Title)

NOTE: If Bidder is a corporation, set forth the legal name of the corporation together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If Bidder is a partnership, set forth the name of the firm together with the signature of the partner or partners authorized to sign contracts on behalf of the partnership.

Business Address: _____

Contractor's Representative(s):

(Name/Title)

(Name/Title)

(Name/Title)

Officers Authorized to Sign Contracts

(Name/Title)

(Name/Title)

(Name/Title)

Telephone Number(s):

(Area Code) (Number)

(Area Code) (Number)

Fax Number(s):

(Area Code) (Number)

(Area Code) (Number)

Date of Bid:

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

(Signature of Bidder)

Name / Title

END OF DOCUMENT

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