

APPENDIX 5C

Phase II ESA

**PHASE II ENVIRONMENTAL SITE ASSESSMENT
OF A
AGRICULTURAL PROPERTY
PARCEL NUMBERS
360-350-006, 360-350-011 AND 360-350-017
MENIFEE, CALIFORNIA 92584**

**Mr. Dan Brose,
Sherman and Haun, LLC
31103 Rancho Viejo Road, Suite 535
San Juan Capistrano, California 92675**

Prepared by:

**Earth Strata Geotechnical Services
42184 Remington Ave
Temecula, California 92590
(951) 397-8315
www.earth-strata.com
ESGS Project
Mill Creek Promenade**

Issue Date: May 4, 2018

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- A. Soil Sampling Site Map
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SECTION I.

EXECUTIVE SUMMARY & RECOMMENDATIONS

Earth-Strata, Inc. (E-S) was retained by Mr. Dan Brose (Client) to perform a Limited Phase II Environmental Site Assessment (Phase II ESA or Assessment) of a site located on the south side of Garbani Road, between Sherman Road to the west, and Haun Road to the east, in Menifee, California. Please see Figure 1 in appendix A for a site map and sampling location map.

This Limited Phase II ESA was performed in accordance with, DTSC's Agricultural Guidance from 2008. The soil sampling design followed DTSC's, Interim Guidance Sampling for Agricultural Properties. The following summarizes E-S's independent conclusions and best professional judgment based upon analytical and historical information available to us during the course of this assessment.

Background

Earth-Strata, Inc. (E-S) was retained by Mr. Dan Brose (Client) to perform a Phase I Environmental Site Assessment (Phase I ESA or Assessment). During this assessment, agricultural use and later biosludge use was identified at the site and the County of Riverside Environmental Health recognized this as a possible environmental concern (REC).

The Site consists of one long rectangular lot, with three parcels, whereas approximately 39 acres is planned to be developed.

Field Activities

At the time of the investigation, the 39-acre site is free of agriculture activities and the former fields show evidence of being tilled. The site was split into 13 sections, where four soil samples were collected from each section and composited. A total of fifty-two hand spade soil samples were performed at 0.5 feet below ground surface. Each section consisting of 4 soil samples were made into composites and placed in a chilled cooler. The soil sampling equipment was cleaned with a phosphate-free detergent prior to sampling and between locations to minimize the potential for cross contamination. See figure 1 for sample locations.

CONCLUSIONS AND RECOMMENDATIONS

The Site consists of approximately 39 acres in Menifee, California, the site formerly was a agricultural use area. The historic use of the Site included dry farming and possible use of biosludge. A total of 13 composite soil samples collected across the Site and were analyzed for metals, fecal coliform and Organochlorine Pesticides to screen for potential impacts related to the historic use of the Site. The concentrations of Metals, Fecal Coliform and Organochlorine Pesticides reported in soil samples collected at the Site did not exceed their respective regulatory screening standards for commercial land use CHHSL or soil RSL. Based on the results of this Limited Phase II, no further investigation is recommended for this Site.

SAMPLE ANANLYSIS AND RESULTS

Soil samples were analyzed by Enviro-Chem Inc. Laboratories for Title 22 Metals by EPA 6010B/7471A, Fecal Coliform by SM9221-ABCE, and Organochlorine Pesticides, by EPA 8081A. All the soil samples analyzed by EPA 6010B/7471A indicated normal background levels except for sample S-13, which was reported as Cr 57.1 mg/kg, whereas an additional STLC analysis was performed and results indicated Cr 0.155 mg/kg. All of the soil samples analyzed for Fecal Coliform SM9221-ABCE were less than reporting limits except for S-9 which was reported as 0.60 MPN/g. All of the soil samples analyzed for Organochlorine Pesticide's by EPA 8081A were reported as non-detect except for S-9, S-11, and S-12 which were reported as 4,4'-DDE .001 mg/kg. None of the measured concentrations of Metals, Fecal Coliform or Organochlorine Pesticides exceeded their respective hazardous waste or California Human Health Screening Levels (CHHSLs) for residential, commercial or industrial land use established by the California Department of Toxic Substances Control (DTSC) or the EPA Region 9 Regional Screening Levels (RSLs).

SECTION X.
STATEMENT OF THE ENVIRONMENTAL PROFESSIONALS

This Assessment has been performed for the exclusive use and benefit of the addressee(s) identified on the cover of this report, or agents directly specified by it (them), for the transaction at issue concerning the subject property described in this report. This Assessment shall not be used or relied upon by others without the prior written consent of Earth-Strata, Inc. and of the addressee(s) named on the cover of this report.

STATEMENT OF QUALITY ASSURANCE

I declare that, to the best of my professional knowledge and belief, I meet the definition of an Environmental Professional as defined in § 312.10 of 40 CFR 312 and 12.13.2. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. The conclusions contained within this Assessment are based upon site conditions I readily observed and were reasonably ascertainable and present at the time of the site visit. The findings and conclusions represent my best professional opinion and judgment. In addition, the conclusions and recommendations stated in this report are based upon personal observations made by ESGS and upon information provided by others. I have no reason to suspect or believe that the information provided is inaccurate.

STATEMENT OF QUALITY CONTROL

The objective of this Phase I ESA was to ascertain the potential presence or absence of RECs that could impact the subject property, as delineated in the scope of services and limitations identified in this report and in the service agreement. The procedure was to perform reasonable steps in accordance with the existing regulations, currently available technology, and generally accepted environmental consulting practices, in order to accomplish the stated objective.

Signature of Professional Geologist – *William T. Doyle, #8601*:

Signature/Environmental Assessor

Acronyms and Abbreviations

Below are several abbreviations that ESGS uses to describe various projects.

ACM	Asbestos-containing material
AQMD	Air Quality Management District
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
bgs	Below Ground Surface
BTEX	Benzene-toluene-ethylbenzene-xylene
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CERCLIS System	Comprehensive Environmental Response, Compensation and Liability Information System
CFR	Code of Federal Regulations
CHMIRS	California Hazardous Material Incident Report System
COC's	Chemicals of Concern
CDL	Clandestine Drug Labs
DEP	Department of Environmental Protection
DOD	Department of Defense
DOE	Department of Energy
DTSC	Department of Toxic Substance Control
EDR	Environmental Data Resources, Inc.
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
FINDS	Facility Index System
FUDS	Formerly Used Defense Sites
HMIRS	Hazardous Materials Information Reporting System
ICIS	Integrated Compliance Information System
LBP	Lead Based Paint
LDL	Laboratory Detection Limit
LEL	Lower Explosion Limit
LUCIS	Land Use Control Information System
LUST	leaking underground storage tank
MCL	Maximum Contaminant Level
MLTS	Material License Tracking System
mg/L	Milligrams per liter
MSDS	Material Safety Data Sheet
MTBE	Methyl Tertiary Butyl Ether
NFA	No Further Action
NPL	National Priority List
ODI	Open Dump Inventory
PADS	PCB Activity Database System
PCB	Poly Chlorinated Biphenyl
PEL	Permissible Exposure Limit
Ppb	Parts per billion
RAP	Remedial Action Plan
RCRA	Resource Conservation and Recovery Act
REC	Recognized environmental condition
RWQCB	Regional Water Quality Control Board
SVE	Soil Vapor Extraction
Ug/L	Micrograms per Liter
UST	Underground storage tank
VOC	Volatile Organic Compound

Appendix A



Lanham St

Gerhart Rd

Kent St

Sherman Rd

S-13

S-1

S-2

S-3

S-12

S-6

S-5

S-4

S-11

S-7

S-9

S-10

S-8

Diego Way

Haun Rd

Wickard Rd

215

Antelope Rd

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Google Earth



1996

33°39'07.35" N 117°10'40.06" W elev 1492 ft

eye alt 6669 ft



Appendix B

Date: April 19, 2018

Mr. Stephen M. Poole
Earth-Strata Geotechnical Services
42184 Remington Ave
Temecula, CA 92590
Tel(951)461-4028 Fax(951)461-4058

Project: **Mill Creek Promenade**
Lab I.D.: **180412-7 through -16**

Dear Mr. Poole:

The **analytical results** for the soil samples, received by our laboratory on April 12, 2018, are attached. The samples were received chilled, intact and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets
Vice President/Program Manager



Andy Wang
Laboratory Manager

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: S-1

LAB I.D.: 180412-7

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	1.48	0.3	1	500	5.0	6010B
Barium (Ba)	94.0	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	27.5	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	--	500	5.0	7196A
Cobalt (Co)	7.75	1.0	1	8,000	80	6010B
Copper (Cu)	18.6	1.0	1	2,500	25	6010B
Lead (Pb)	3.26	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.026	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	7.21	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	58.0	5.0	1	2,400	24	6010B
Zinc (Zn)	47.2	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

* = STLC analysis for the metal is recommended (if marked)

** = Additional Analysis required, please call to discuss (if marked)

*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: S-2

LAB I.D.: 180412-8

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	1.38	0.3	1	500	5.0	6010B
Barium (Ba)	115	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	35.2	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	-	500	5.0	7196A
Cobalt (Co)	8.96	1.0	1	8,000	80	6010B
Copper (Cu)	16.6	1.0	1	2,500	25	6010B
Lead (Pb)	3.16	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.025	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	7.15	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	51.2	5.0	1	2,400	24	6010B
Zinc (Zn)	47.0	0.5	1	5,000	250	6010B

COMMENTS

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CAL-DHS ELAP CERTIFICATE No.: 1555

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Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: **Mill Creek Promenade**

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: **S-3**

LAB I.D.: 180412-9

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	1.24	0.3	1	500	5.0	6010B
Barium (Ba)	107	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	14.9	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	--	500	5.0	7196A
Cobalt (Co)	6.91	1.0	1	8,000	80	6010B
Copper (Cu)	7.60	1.0	1	2,500	25	6010B
Lead (Pb)	2.84	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.023	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	36.3	5.0	1	2,400	24	6010B
Zinc (Zn)	45.6	0.5	1	5,000	250	6010B

COMMENTS

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CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

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PROJECT: **Mill Creek Promenade**

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: **S-4**

LAB I.D.: 180412-10

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	1.41	0.3	1	500	5.0	6010B
Barium (Ba)	101	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	22.1	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	-	500	5.0	7196A
Cobalt (Co)	7.95	1.0	1	8,000	80	6010B
Copper (Cu)	11.7	1.0	1	2,500	25	6010B
Lead (Pb)	3.12	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.016	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	3.15	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	49.1	5.0	1	2,400	24	6010B
Zinc (Zn)	45.1	0.5	1	5,000	250	6010B

COMMENTS

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Data Reviewed and Approved by:
CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: **Earth-Strata Geotechnical Services**
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: **Mill Creek Promenade**

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: **S-5**

LAB I.D.: 180412-11

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	3.02	0.3	1	500	5.0	6010B
Barium (Ba)	105	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	22.2	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	--	500	5.0	7196A
Cobalt (Co)	7.01	1.0	1	8,000	80	6010B
Copper (Cu)	16.4	1.0	1	2,500	25	6010B
Lead (Pb)	3.83	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.020	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	7.66	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	46.6	5.0	1	2,400	24	6010B
Zinc (Zn)	58.6	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

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Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: **Earth-Strata Geotechnical Services**
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058

PROJECT: **Mill Creek Promenade**

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: **S-6**

LAB I.D.: 180412-12

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	1.44	0.3	1	500	5.0	6010B
Barium (Ba)	117	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	24.0	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	--	500	5.0	7196A
Cobalt (Co)	8.83	1.0	1	8,000	80	6010B
Copper (Cu)	12.3	1.0	1	2,500	25	6010B
Lead (Pb)	2.93	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.020	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	4.16	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	55.7	5.0	1	2,400	24	6010B
Zinc (Zn)	46.5	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

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Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: **Earth-Strata Geotechnical Services**
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: **Mill Creek Promenade**

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: **S-7**

LAB I.D.: 180412-13

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	1.53	0.3	1	500	5.0	6010B
Barium (Ba)	99.7	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	39.2	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	-	500	5.0	7196A
Cobalt (Co)	9.37	1.0	1	8,000	80	6010B
Copper (Cu)	32.1	1.0	1	2,500	25	6010B
Lead (Pb)	4.05	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.044	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	11.0	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	43.4	5.0	1	2,400	24	6010B
Zinc (Zn)	52.7	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

* = STLC analysis for the metal is recommended (if marked)

** = Additional Analysis required, please call to discuss (if marked)

*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: PLS

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel(951)461-4028 Fax(951)461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: S-8

LAB I.D.: 180412-14

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	3.02	0.3	1	500	5.0	6010B
Barium (Ba)	57.4	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	11.7	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	--	500	5.0	7196A
Cobalt (Co)	5.66	1.0	1	8,000	80	6010B
Copper (Cu)	16.2	1.0	1	2,500	25	6010B
Lead (Pb)	3.78	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.031	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	37.9	5.0	1	2,400	24	6010B
Zinc (Zn)	34.9	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


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** = Additional Analysis required, please call to discuss (if marked)

*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: S-9

LAB I.D.: 180412-15

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	1.08	0.3	1	500	5.0	6010B
Barium (Ba)	75.3	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	21.5	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	-	500	5.0	7196A
Cobalt (Co)	7.31	1.0	1	8,000	80	6010B
Copper (Cu)	27.3	1.0	1	2,500	25	6010B
Lead (Pb)	2.94	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.033	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	83.6	5.0	1	2,400	24	6010B
Zinc (Zn)	55.4	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

* = STLC analysis for the metal is recommended (if marked)

** = Additional Analysis required, please call to discuss (if marked)

*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

SAMPLE I.D.: S-10

LAB I.D.: 180412-16

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	1.64	0.3	1	500	5.0	6010B
Barium (Ba)	125	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	20.6	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	--	500	5.0	7196A
Cobalt (Co)	9.05	1.0	1	8,000	80	6010B
Copper (Cu)	26.1	1.0	1	2,500	25	6010B
Lead (Pb)	2.50	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.016	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	3.29	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	86.5	5.0	1	2,400	24	6010B
Zinc (Zn)	51.5	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

* = STLC analysis for the metal is recommended (if marked)

** = Additional Analysis required, please call to discuss (if marked)

*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

METHOD BLANK REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18

DATE RECEIVED: 04/12/18

MATRIX: SOIL

DATE ANALYZED: 04/13/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/19/18

METHOD BLANK REPORT FOR LAB I.D.: 180412-7 THROUGH -16

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	ND	0.3	1	500	5.0	6010B
Barium (Ba)	ND	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	ND	0.5	1	2,500	560/5@	6010B
Chromium VI (Cr6)	--	0.1	-	500	5.0	7196A
Cobalt (Co)	ND	1.0	1	8,000	80	6010B
Copper (Cu)	ND	1.0	1	2,500	25	6010B
Lead (Pb)	ND	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	ND	5.0	1	2,400	24	6010B
Zinc (Zn)	ND	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

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Data Reviewed and Approved by: 
CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/13/2018

ANALYSIS DATE: 4/13/2018											
Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Arsenis(As)	180412-14	50.0	108	PASS	3.02	50.0	54.2	102%	54.3	103%	0%
Lead(Pb)	180412-14	50.0	106	PASS	3.78	50.0	51.0	94%	51.5	95%	1%
Nickel(Ni)	180412-14	50.0	107	PASS	1.67	50.0	54.1	105%	54.6	106%	1%

ANALYSIS DATE. : 4/13/2018

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	180413-9	0.125	92	PASS	0	0.125	0.112	90%	0.105	84%	6%

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Arsenis(As)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

*=Fail due to matrix interference

Note: LCS is in control therefore results are in control

ANALYST: 

FINAL REVIEWER: 

Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,

Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

0 Same Day

0 24 Hours

0 48 Hours

0 72 Hours

0 1 Week (Standard)

Other:

SAMPLE ID		LAB ID	SAMPLING TIME		MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required		COMMENTS	Misc./PO#
S-1	180412-7		4/12/18	9:30am	S	5	500ml Jar	X				
S-2	-8		4/12/18	10:00am								
S-3	-9		4/12/18	10:30am								
S-4	-10		4/12/18	11:00am								
S-5	-11		4/12/18	11:30am								
S-6	-12		4/12/18	12:00pm								
S-7	-13		4/12/18	12:30pm			2 x 250ml Jar					
S-8	-14		4/12/18	1:00pm								
S-9	-15		4/12/18	1:30pm			250ml Jar					
S-10	-16		4/12/18	2:00pm			250ml Jar					

Company Name:

Earth-Strata Geotechnical Services

Project Contact:

Sergio Poole

Sampler's Signature:

[Signature]

Address:

42184 Remington Ave

Tel:

951 461 4028

Project Name/ID:

Mill Creek Promenade

City/State/Zip:

Temecula CA 92590

Fax/Email:

[Signature]

Relinquished by:

[Signature]

Received by:

[Signature]

Relinquished by:

Received by:

Date & Time:

4/12/2018
2:15 pm

Date & Time:

Date & Time:

Instructions for Sample Storage After Analysis:

☐ Dispose of ☐ Return to Client ☒ Store (30 Days)

☐ Other:

Relinquished by:

[Signature]

Received by:

[Signature]

Date & Time:

Date & Time:

Date & Time:

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date:

4/12/18

Page 1 of 1

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: April 27, 2018

Mr. Stephen M. Poole
Earth-Strata Geotechnical Services
42184 Remington Ave
Temecula, CA 92590
Tel(951)461-4028 Fax(951)461-4058

Project: **Mill**
Lab I.D.: **180420-21, -22, -23**

Dear Mr. Poole:

The **analytical results** for the soil samples, received by our laboratory on April 20, 2018, are attached. The samples were received chilled, intact and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets
Vice President/Program Manager



Andy Wang
Laboratory Manager

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill

DATE SAMPLED: 04/20/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE

DATE RECEIVED: 04/20/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/27/18

SAMPLE I.D.: S-11

LAB I.D.: 180420-21

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	0.958	0.3	1	500	5.0	6010B
Barium (Ba)	67.6	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	20.8	0.5	1	2,500	560/50	6010B
Chromium VI (Cr6)	--	0.1	-	500	5.0	7196A
Cobalt (Co)	5.92	1.0	1	8,000	80	6010B
Copper (Cu)	27.6	1.0	1	2,500	25	6010B
Lead (Pb)	3.49	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.024	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	4.91	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	23.4	5.0	1	2,400	24	6010B
Zinc (Zn)	54.8	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

* = STLC analysis for the metal is recommended (if marked)

** = Additional Analysis required, please call to discuss (if marked)

*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 
CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: **Earth-Strata Geotechnical Services**
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058

PROJECT: **Mill**

DATE SAMPLED: 04/20/18

DATE RECEIVED: 04/20/18

MATRIX: SOIL

DATE ANALYZED: 04/23/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/27/18

SAMPLE I.D.: **S-12**

LAB I.D.: 180420-22

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	0.783	0.3	1	500	5.0	6010B
Barium (Ba)	76.9	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	34.5	0.5	1	2,500	560/500	6010B
Chromium VI (Cr6)	--	0.1	-	500	5.0	7196A
Cobalt (Co)	7.54	1.0	1	8,000	80	6010B
Copper (Cu)	14.6	1.0	1	2,500	25	6010B
Lead (Pb)	2.31	0.5	1	1,000	5.0	6010B
Mercury (Hg)	0.016	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	9.59	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	24.7	5.0	1	2,400	24	6010B
Zinc (Zn)	37.1	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

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*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: **Earth-Strata Geotechnical Services**
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: **Mill**

DATE SAMPLED: 04/20/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE

DATE RECEIVED: 04/20/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/27/18

SAMPLE I.D.: **S-13**

LAB I.D.: 180420-23

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS
UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	0.591	0.3	1	500	5.0	6010B
Barium (Ba)	88.2	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	57.1 **	0.5	1	2,500	560/500	6010B
Chromium VI (Cr6)	--	0.1	-	500	5.0	7196A
Cobalt (Co)	7.59	1.0	1	8,000	80	6010B
Copper (Cu)	29.1	1.0	1	2,500	25	6010B
Lead (Pb)	2.44	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	15.9	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	23.8	5.0	1	2,400	24	6010B
Zinc (Zn)	63.6	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

* = STLC analysis for the metal is recommended (if marked)

** = Additional Analysis required, please call to discuss (if marked)

*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 
CAL-DHS ELAP CERTIFICATE No.: 1555

METHOD BLANK REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill

DATE SAMPLED: 04/20/18

DATE RECEIVED: 04/20/18

MATRIX: SOIL

DATE ANALYZED: 04/23/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/27/18

METHOD BLANK REPORT FOR LAB I.D.: 180420-21, -22, -23

TOTAL THRESHOLD LIMIT CONCENTRATION ANALYSIS

UNIT: mg/Kg = MILLIGRAM PER KILOGRAM = PPM

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD
Antimony (Sb)	ND	1.0	1	500	15	6010B
Arsenic (As)	ND	0.3	1	500	5.0	6010B
Barium (Ba)	ND	5.0	1	10,000	100	6010B
Beryllium (Be)	ND	0.5	1	75	0.75	6010B
Cadmium (Cd)	ND	0.5	1	100	1.0	6010B
Chromium Total (Cr)	ND	0.5	1	2,500	560/500	6010B
Chromium VI (Cr6)	--	0.1	-	500	5.0	7196A
Cobalt (Co)	ND	1.0	1	8,000	80	6010B
Copper (Cu)	ND	1.0	1	2,500	25	6010B
Lead (Pb)	ND	0.5	1	1,000	5.0	6010B
Mercury (Hg)	ND	0.01	1	20	0.2	7471A
Molybdenum (Mo)	ND	5.0	1	3,500	350	6010B
Nickel (Ni)	ND	2.5	1	2,000	20	6010B
Selenium (Se)	ND	1.0	1	100	1.0	6010B
Silver (Ag)	ND	1.0	1	500	5.0	6010B
Thallium (Tl)	ND	1.0	1	700	7.0	6010B
Vanadium (V)	ND	5.0	1	2,400	24	6010B
Zinc (Zn)	ND	0.5	1	5,000	250	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Below the Actual Detection Limit or non-detected

TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration


@ = Must meet both the STLC Limit at 560 and EPA-TCLP Limit at 5

* = STLC analysis for the metal is recommended (if marked)

** = Additional Analysis required, please call to discuss (if marked)

*** = The concentration exceeds the TTLC Limit, and the sample is defined as hazardous waste as per CCR-TITLE 22 (if marked)

-- = Not analyzed/not requested

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for Metals Analysis --TTLC--SOLID/SOIL MATRIX

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/23/2018

Unit : mg/Kg(ppm)

Analysis	Spk.Sample ID	CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	180420-37	50.0	102	PASS	32.7	50.0	78.6	92%	80.4	95%	4%
Lead(Pb)	180420-37	50.0	114	PASS	2.04	50.0	45.1	86%	45.9	88%	2%
Nickel(Ni)	180420-37	50.0	104	PASS	51.4	50.0	102	101%	104	105%	4%

ANALYSIS DATE. : 4/23/2018

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	180420-32	0.125	93	PASS	0	0.125	0.108	86%	0.105	84%	3%

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Nickel(Ni)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: 

FINAL REVIEWER: 

*=Fail due to matrix interference

Note:LCS is in control therefore results are in control

Enviro - Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

Date: April 30, 2018

Mr. Stephen M. Poole
Earth-Strata Geotechnical Services
42184 Remington Ave
Temecula, CA 92590
Tel(951)461-4028 Fax(951)461-4058

Project: **Mill**
Lab I.D.: **180420-21, -22, -23**

Dear Mr. Poole:

The **additional STL-Cr results** for the soil samples, received by our laboratory on April 20, 2018, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets
Vice President/Program Manager



Andy Wang
Laboratory Manager

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill

DATE SAMPLED: 04/20/18

DATE RECEIVED: 04/20/18

MATRIX: SOIL

DATE ANALYZED: 04/28-30/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/30/18

SAMPLE I.D.: S-13

LAB I.D.: 180420-23

SOLUBLE THRESHOLD LIMIT CONCENTRATION (STLC) ANALYSIS
UNIT: mg/L IN THE STLC LEACHATE

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD USED
Chromium (Cr)	0.155	0.05	1	2,500	560/5.0@	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF


TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet the TCLP limit/chromium (5.0 mg/L in TCLP leachate)

** = TCLP Chromium/TTLC-Chromium VI recommended (if marked)

*** = The concentration exceeds the STLC Limit, and the sample is defined as hazardous waste as per CAL-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

METHOD BLANK REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill

DATE SAMPLED: 04/20/18

DATE RECEIVED: 04/20/18

MATRIX: SOIL

DATE ANALYZED: 04/28-30/18

REPORT TO: MR. STEPHEN M. POOLE

DATE REPORTED: 04/30/18

METHOD BLANK REPORT FOR LAB I.D.: 180420-23

SOLUBLE THRESHOLD LIMIT CONCENTRATION (STLC) ANALYSIS

UNIT: mg/L IN THE STLC LEACHATE

ELEMENT ANALYZED	SAMPLE RESULT	PQL	DF	TTLC LIMIT	STLC LIMIT	EPA METHOD USED
Chromium (Cr)	ND	0.05	1	2,500	560/5.0@	6010B

COMMENTS

DF = Dilution Factor

PQL = Practical Quantitation Limit

Actual Detection Limit = PQL X DF

ND = Non Detected or Below the Actual Detection Limit


TTLC = Total Threshold Limit Concentration

STLC = Soluble Threshold Limit Concentration

@ = Must meet the TCLP limit/chromium (5.0 mg/L in TCLP leachate)

** = TCLP Chromium/TTLC-Chromium VI recommended (if marked)

*** = The concentration exceeds the STLC Limit, and the sample is defined as hazardous waste as per CAL-TITLE 22 (if marked)

Data Reviewed and Approved by: 

CAL-DHS ELAP CERTIFICATE No.: 1555

QA/QC for Metals Analysis--STLC

Matrix Spike/ Matrix Spike Duplicate/ LCS :

ANALYSIS DATE: 4/30/2018

Unit : mg/L (ppm)

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Chromium(Cr)	180425-80	5.00	102	PASS	0.138	5.00	5.11	99%	5.11	99%	0%
Copper(Cu)	180425-80	5.00	103	PASS	0	5.00	5.23	105%	5.22	104%	0%
Lead(Pb)	180425-80	5.00	110	PASS	1.51	5.00	6.10	92%	6.06	91%	1%

ANALYSIS DATE: 4/23/2018

Analysis	Spk.Sample ID	LCS CONC.	LCS %Rec.	LCS STATUS	Sample Result	Spike Conc.	MS	% Rec MS	MSD	% Rec MSD	% RPD
Mercury (Hg)	180420-25	0.0125	94	PASS	0	0.0125	0.0107	86%	0.0110	88%	3%

MS/MSD Status:

Analysis	%MS	%MSD	%LCS	%RPD
Chromium(Cr)	PASS	PASS	PASS	PASS
Copper(Cu)	PASS	PASS	PASS	PASS
Lead(Pb)	PASS	PASS	PASS	PASS
Mercury (Hg)	PASS	PASS	PASS	PASS
Accepted Range	75 ~ 125	75 ~ 125	85 ~ 115	0 ~ 20

ANALYST: 

FINAL REVIEWER: 

*=Fail due to matrix interference

Note: LCS is in control therefore results are in control

Turnaround Time

<input type="radio"/> Same Day
<input type="radio"/> 24 Hours
<input type="radio"/> 48 Hours
<input type="radio"/> 72 Hours
<input checked="" type="radio"/> 1 Week (Standard)
<input type="radio"/> Other:

1214 E. Lexington Avenue[®]
Pomona, CA 91766
Tel: (909) 590-5905 Fax: (909) 590-5907
CA-DHS ELAP CERTIFICATE #1555

☒ 1 Week (Standard)

[illegible]

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE • YELLOW TO CLIENT

Date: April 26, 2018

Mr. Stephen M. Poole
Earth-Strata Geotechnical Services
42184 Remington Ave
Temecula, CA 92590
Tel(951)461-4028 Fax(951)461-4058

Project: **Mill Creek Promenade**
Lab I.D.: **180412-7 through -16**

Dear Mr. Poole:

The **additional OCPs results** for the soil samples, received by our laboratory on April 12, 2018, are attached. The samples were received chilled, intact, accompanying chain of custody and also stored per the EPA protocols.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets
Vice President/Program Manager



Andy Wang
Laboratory Manager

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

SAMPLE I.D.: S-1

LAB I.D.: 180412-7

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

SAMPLE I.D.: S-2

LAB I.D.: 180412-8

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

SAMPLE I.D.: S-3

LAB I.D.: 180412-9

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

SAMPLE I.D.: S-4

LAB I.D.: 180412-10

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: **Earth-Strata Geotechnical Services**
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058

PROJECT: **Mill Creek Promenade**

DATE SAMPLED: 04/12/18 DATE RECEIVED: 04/12/18
MATRIX: SOIL DATE EXTRACTED: 04/23/18
REPORT TO: MR. STEPHEN M. POOLE DATE ANALYZED: 04/23/18
 DATE REPORTED: 04/26/18

SAMPLE I.D.: **S-5**

LAB I.D.: 180412-11

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	10*
alpha-BHC	ND	0.001	10*
beta-BHC	ND	0.001	10*
gamma-BHC (Lindane)	ND	0.001	10*
delta-BHC	ND	0.001	10*
alpha-Chlordane	ND	0.001	10*
gamma-Chlordane	ND	0.001	10*
Total Chlordane (Technical)	ND	0.005	10*
4,4'-DDD	ND	0.001	10*
4,4'-DDE	ND	0.001	10*
4,4'-DDT	ND	0.001	10*
Dieldrin	ND	0.001	10*
Endosulfan I	ND	0.001	10*
Endosulfan II	ND	0.001	10*
Endosulfan Sulfate	ND	0.001	10*
Endrin	ND	0.001	10*
Endrin Aldehyde	ND	0.001	10*
Endrin Ketone	ND	0.001	10*
Heptachlor Epoxide	ND	0.001	10*
Heptachlor	ND	0.001	10*
Methoxychlor	ND	0.001	10*
Toxaphene	ND	0.020	10*

COMMENTS:

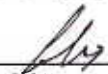
DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

* = ACTUAL DETECTION LIMIT RAISED DUE TO MATRIX INTERFERENCE

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

SAMPLE I.D.: S-6

LAB I.D.: 180412-12

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: **Earth-Strata Geotechnical Services**
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058

PROJECT: **Mill Creek Promenade**

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE

DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

SAMPLE I.D.: **S-7**

LAB I.D.: 180412-13

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

SAMPLE I.D.: S-8

LAB I.D.: 180412-14

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE

DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

SAMPLE I.D.: S-9

LAB I.D.: 180412-15

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	0.001	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058

PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE

DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

SAMPLE I.D.: S-10

LAB I.D.: 180412-16

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

METHOD BLANK REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill Creek Promenade

DATE SAMPLED: 04/12/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/12/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/26/18

METHOD BLANK REPORT FOR LAB I.D.: 180412-7 THROUGH -16

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905 Fax (909)590-5907

EPA 8081 QA/QC Report

Matrix: **Soil/Solid/Liquid(Oil)**

Date Analyzed: **4/23/2018**

Unit: **mg/Kg (ppm)**

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: **180412-10 MS/MSD**

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00421	84%	0.00437	87%	4%	0-20%	70-130
Aldrin	0.000	0.00500	0.00428	86%	0.00464	93%	8%	0-20%	70-130
4,4-DDE	0.000	0.00500	0.00432	86%	0.00404	81%	7%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00418	84%	75-125
Aldrin	0.00500	0.00419	84%	75-125
4,4-DDE	0.00500	0.00404	81%	75-125
Dieldrin	0.00500	0.00413	83%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	180412-7	180412-8	180412-9	180412-10	180412-11	180412-12	
Tetra-chloro-meta-xylene	50-150	92%	84%	89%	96%	92%	62%	89%	
Decachlorobiphenyl	50-150	84%	85%	83%	85%	89%	64%	144%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		180412-13	180412-14	180412-15	180412-16	180420-21	180420-22	180420-23	
Tetra-chloro-meta-xylene	50-150	90%	92%	94%	92%	92%	89%	86%	
Decachlorobiphenyl	50-150	112%	75%	88%	80%	48%*	78%	82%	

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.									
Tetra-chloro-meta-xylene	50-150								
Decachlorobiphenyl	50-150								

S.R. = Sample Result

* = Surrogate fail due to matrix interference (If Marked)

spk conc = Spike Concentration

Note: LCS, MS, MSD are in control therefore results are in control.

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

Analyzed and Reviewed By: 

Final Reviewer: 

Fwd: Need quote please**Curtis B. Desilets** <curt.envirocheminc@gmail.com>

Thu, Apr 19, 2018 at 11:06 AM

To: Jessica Lin <envirocheminc@gmail.com>, "JH (Enviro-chem)" <jh04envirocheminc@gmail.com>

Add these tests to the EARTH Strata samples 180412-7~16 that are due today.

I will take the Fecal Coliform to Calscience today.

----- Forwarded message -----

From: **Curtis B. Desilets** <curt.envirocheminc@gmail.com>

Date: Thu, Apr 19, 2018 at 10:53 AM

Subject: Re: Need quote please

To: "Doyle, William" <WDoyle@semprautilities.com>

Fecal Coliform = \$50 per sample (They have to run total and fecal together to determine the fecal)
8081A = \$70

-Curt.

On Thu, Apr 19, 2018 at 10:51 AM, Doyle, William <WDoyle@semprautilities.com> wrote:

Hi Curtis,

Can you give a price in these:

- Fecal coliform by SM9221-ABCE; and
- Organochlorine pesticides by EPA Method 8081A

Curtis B. Desilets
Executive Vice President
Enviro-Chem Laboratories, Inc.
(909) 590-5905

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Enviro-Chem, Inc. Laboratories

1214 E. Lexington Avenue,

Pomona, CA 91766

Tel: (909) 590-5905 Fax: (909) 590-5907

CA-DHS ELAP CERTIFICATE #1555

Turnaround Time

- ☐ Same Day
- ☐ 24 Hours
- ☐ 48 Hours
- ☐ 72 Hours
- ☒ 1 Week (Standard)
- ☐ Other:

SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required				COMMENTS	
S-1	180412-7	4/12/18	9:30am	S	5	50ml Jar							
S-2	-8	4/12/18	10:00am										
S-3	-9	4/12/18	10:30am										
S-4	-10	4/12/18	11:00am										
S-5	-11	4/12/18	11:30am										
S-6	-12	4/12/18	12:00pm										
S-7	-13	4/12/18	12:30pm										
S-8	-14	4/12/18	1:00pm										
S-9	-15	4/12/18	1:30pm										
S-10	-16	4/12/18	2:00pm										

Company Name: Earth-Strata Geotechnical Services		Project Contact: Stephen Poole		Sampler's Signature:	
Address: 42184 Remington Ave		Tel: 951 461 4078		Project Name/ID: Mill Creek Promenade	
City/State/Zip: Jensen CA 92540		Fax/Email: SPoole@ESSG.INC.COM		Instructions for Sample Storage After Analysis: <input type="radio"/> Dispose of <input type="radio"/> Return to Client <input checked="" type="radio"/> Store (30 Days) <input type="radio"/> Other:	
Relinquished by:	Received by:	Date & Time: 4/12/18 2:13 pm			
Relinquished by:	Received by:	Date & Time:			
Relinquished by:	Received by:	Date & Time:			

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE - YELLOW TO CLIENT

Date: **4/12/18**

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill

DATE SAMPLED: 04/20/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/20/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/27/18

SAMPLE I.D.: S-11

LAB I.D.: 180420-21

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	0.001	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill

DATE SAMPLED: 04/20/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/20/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/27/18

SAMPLE I.D.: S-12

LAB I.D.: 180420-22

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	0.001	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

LABORATORY REPORT

CUSTOMER: Earth-Strata Geotechnical Services
42184 Remington Ave., Temecula, CA 92590
Tel (951) 461-4028 Fax (951) 461-4058
PROJECT: Mill

DATE SAMPLED: 04/20/18
MATRIX: SOIL
REPORT TO: MR. STEPHEN M. POOLE
DATE RECEIVED: 04/20/18
DATE EXTRACTED: 04/23/18
DATE ANALYZED: 04/23/18
DATE REPORTED: 04/27/18

SAMPLE I.D.: S-13

LAB I.D.: 180420-23

Organochlorine Pesticides Analysis

Method: EPA 8081A

Unit: mg/Kg = Milligram Per Kilogram = PPM

PARAMETER	SAMPLE RESULT	PQL	DF
Aldrin	ND	0.001	1
alpha-BHC	ND	0.001	1
beta-BHC	ND	0.001	1
gamma-BHC (Lindane)	ND	0.001	1
delta-BHC	ND	0.001	1
alpha-Chlordane	ND	0.001	1
gamma-Chlordane	ND	0.001	1
Total Chlordane (Technical)	ND	0.005	1
4,4'-DDD	ND	0.001	1
4,4'-DDE	ND	0.001	1
4,4'-DDT	ND	0.001	1
Dieldrin	ND	0.001	1
Endosulfan I	ND	0.001	1
Endosulfan II	ND	0.001	1
Endosulfan Sulfate	ND	0.001	1
Endrin	ND	0.001	1
Endrin Aldehyde	ND	0.001	1
Endrin Ketone	ND	0.001	1
Heptachlor Epoxide	ND	0.001	1
Heptachlor	ND	0.001	1
Methoxychlor	ND	0.001	1
Toxaphene	ND	0.020	1

COMMENTS:

DF = DILUTION FACTOR

PQL = PRACTICAL QUANTITATION LIMIT

ACTUAL DETECTION LIMIT = PQL X DF

ND = NON-DETECTED OR BELOW THE ACTUAL DETECTION LIMIT

DATA REVIEWED AND APPROVED BY: 

CAL-DHS ELAP CERTIFICATE No.: 1555

Enviro-Chem, Inc.

1214 E. Lexington Avenue, Pomona, CA 91768

Tel (909)590-5905 Fax (909)590-5907

EPA 8081 QA/QC Report

Matrix: Soil/Solid/Liquid(Oil)
Unit: mg/Kg (ppm)

Date Analyzed: 4/23/2018

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

Spiked Sample Lab I.D.: 180412-10 MS/MSD

Analyte	S.R.	spk conc	MS	%REC	MSD	%REC	%RPD	ACP %RPD	ACP %REC
Gamma-BHC	0.000	0.00500	0.00421	84%	0.00437	87%	4%	0-20%	70-130
Aldrin	0.000	0.00500	0.00428	86%	0.00464	93%	8%	0-20%	70-130
4,4-DDE	0.000	0.00500	0.00432	86%	0.00404	81%	7%	0-20%	70-130

Lab Control Spike (LCS) Recovery:

Analyte	spk conc	LCS	% REC	ACP %REC
Gamma-BHC	0.00500	0.00418	84%	75-125
Aldrin	0.00500	0.00419	84%	75-125
4,4-DDE	0.00500	0.00404	81%	75-125
Dieldrin	0.00500	0.00413	83%	75-125

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		MB	180412-7	180412-8	180412-9	180412-10	180412-11	180412-12
Tetra-chloro-meta-xylene	50-150	92%	84%	89%	96%	92%	62%	89%
Decachlorobiphenyl	50-150	84%	85%	83%	85%	89%	64%	144%

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.		180412-13	180412-14	180412-15	180412-16	180420-21	180420-22	180420-23
Tetra-chloro-meta-xylene	50-150	90%	92%	94%	92%	92%	89%	86%
Decachlorobiphenyl	50-150	112%	75%	88%	80%	48%*	78%	82%

Surrogate Recovery	ACP%	%REC	%REC	%REC	%REC	%REC	%REC	%REC
Sample I.D.								
Tetra-chloro-meta-xylene	50-150							
Decachlorobiphenyl	50-150							

S.R. = Sample Result

spk conc = Spike Concentration

%REC = Percent Recovery

ACP %RPD = Acceptable Percent RPD Range

ACP %REC = Acceptable Percent Recovery Range

* = Surrogate fail due to matrix interference (If Marked)

Note: LCS, MS, MSD are in control therefore results are in control.

Analyzed and Reviewed By: [Signature]

Final Reviewer: [Signature]



Enthalpy Analytical, LLC

931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com



Client: Enviro-Chem Inc.
Address: 1214 E. Lexington Avenue
Pomona, CA 91766

Lab Request: 401924
Report Date: 04/26/2018
Date Received: 04/20/2018
Client ID: 7420

Attn: Curtis Desilets

Comments: Mill Creek Promenade (180420-21 to -23)

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

<u>Sample #</u>	<u>Client Sample ID</u>
-----------------	-------------------------

401924-001	S-11 (180420-21)
401924-002	S-12 (180420-22)
401924-003	S-13 (180420-23)

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Ranjit K. K. Clarke

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

The reports of the Enthalpy Analytical, Inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/20/2018 10:08	Site:	
Sample #: 401924-001	Client Sample #: S-11 (180420-21)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method		QCBatchID: QC1190519				
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/20/2018 09:41	Site:	
Sample #: 401924-002	Client Sample #: S-12 (180420-22)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method		QCBatchID: QC1190519				
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/20/2018 09:27	Site:	
Sample #: 401924-003	Client Sample #: S-13 (180420-23)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method		QCBatchID: QC1190519				
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds

CA-DHS ELAP CERTIFICATE #1555

~~0.1 Week (Standard)~~

Other:

[illegible]

CHAIN OF CUSTODY RECORD

WHITE WITH SAMPLE • YELLOW TO CLIENT



Enthalpy Analytical, LLC

931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com



Client: Enviro-Chem Inc.
Address: 1214 E. Lexington Avenue
Pomona, CA 91766

Attn: Curtis Desilets

Comments: Mill Creek Promenade (180412-7 to -16)

Lab Request: 401926
Report Date: 04/26/2018
Date Received: 04/20/2018
Client ID: 7420

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

<u>Sample #</u>	<u>Client Sample ID</u>
401926-001	S-1 (180412-7)
401926-002	S-2 (180412-8)
401926-003	S-3 (180412-9)
401926-004	S-4 (180412-10)
401926-005	S-5 (180412-11)
401926-006	S-6 (180412-12)
401926-007	S-7 (180412-13)
401926-008	S-8 (180412-14)
401926-009	S-9 (180412-15)
401926-010	S-10 (180412-16)

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

The reports of the Enthalpy Analytical, Inc. are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.



Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 09:30	Site:	
Sample #: <u>401926-001</u>	Client Sample #: S-1 (180412-7)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 10:00	Site:	
Sample #: <u>401926-002</u>	Client Sample #: S-2 (180412-8)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 10:30	Site:	
Sample #: <u>401926-003</u>	Client Sample #: S-3 (180412-9)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 11:00	Site:	
Sample #: <u>401926-004</u>	Client Sample #: S-4 (180412-10)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 11:30	Site:	
Sample #: <u>401926-005</u>	Client Sample #: S-5 (180412-11)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 12:00	Site:	
Sample #: <u>401926-006</u>	Client Sample #: S-6 (180412-12)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 12:30	Site:	
Sample #: <u>401926-007</u>	Client Sample #: S-7 (180412-13)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 13:00	Site:	
Sample #: <u>401926-008</u>	Client Sample #: S-8 (180412-14)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 13:30	Site:	
Sample #: <u>401926-009</u>	Client Sample #: S-9 (180412-15)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	0.60	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/12/2018 14:00	Site:	
Sample #: <u>401926-010</u>	Client Sample #: S-10 (180412-16)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
B	Analyte was present in an associated method blank.
B1	Analyte was present in a sample and associated method blank greater than MDL but less than RDL.
BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Enviro-Chem, Inc. Laboratories

Project: MAI Creek Promenade (180412-7 to -16)

Date Received: 04/20/18

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: 0.0 #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: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: -0.9 #2: _____ #3: _____ #4: _____

Section 4

	YES	NO	N/A
Was a COC received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are sample IDs present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are sampling dates & times present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is a relinquished signature present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the tests required clearly indicated on the COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are custody seals present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If custody seals are present, were they intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all samples arrive intact? If no, indicate in Section 4 below.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC? (ID, dates and times)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Were the samples collected in the correct containers for the required tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are the containers labeled with the correct preservatives?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there headspace in the VOA vials greater than 5-6 mm in diameter?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Was a sufficient amount of sample submitted for the requested tests?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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: 04/20/18

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



Enthalpy Analytical, LLC

931 W. Barkley Ave - Orange, CA 92868
Tel: (714)771-6900 Fax: (714)538-1209
www.enthalpy.com
info-sc@enthalpy.com



Client: Enviro-Chem Inc.
Address: 1214 E. Lexington Avenue
Pomona, CA 91766

Attn: Curtis Desilets

Comments: Mill Creek Promenade (180420-21 to -23)

Lab Request: 401924
Report Date: 04/26/2018
Date Received: 04/20/2018
Client ID: 7420

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods. Methods accredited by NELAC are indicated on the report. This cover letter is an integral part of the final report.

<u>Sample #</u>	<u>Client Sample ID</u>
-----------------	-------------------------

401924-001	S-11 (180420-21)
401924-002	S-12 (180420-22)
401924-003	S-13 (180420-23)

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

Report Review performed by: Ranjit Clarke, Project Manager

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 60 days from date received.

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Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/20/2018 10:08	Site:	
Sample #: <u>401924-001</u>	Client Sample #: S-11 (180420-21)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/20/2018 09:41	Site:	
Sample #: <u>401924-002</u>	Client Sample #: S-12 (180420-22)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Matrix: Solid	Client: Enviro-Chem Inc.	Collector: Client
Sampled: 04/20/2018 09:27	Site:	
Sample #: <u>401924-003</u>	Client Sample #: S-13 (180420-23)	Sample Type:

Analyte	Result	DF	RDL	Units	Prepared	Analyzed By	Notes
Method: SM 9221-E	Prep Method: Method					QCBatchID: QC1190519	
Coliform, Fecal	<0.2	10		MPN/g	04/23/18 13:35	04/26/18 16:35	AKS

Data Qualifiers and Definitions

Qualifiers

A	See Report Comments.
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BQ1	No valid test replicates. Sample Toxicity is possible. Best result was reported.
BQ2	No valid test replicates.
BQ3	No valid test replicates. Final DO is less than 1.0 mg/L. Result may be greater.
BQ4	Minor Dissolved Oxygen loss was observed in the blank water check, however, the LCS was within criteria, validating the batch.
C	Possible laboratory contamination.
D	RPD was not within control limits. The sample data was reported without further clarification.
D1	Lesser amount of sample was used due to insufficient amount of sample supplied.
D2	Reporting limit is elevated due to sample matrix. Target analyte was not detected above the elevated reporting limit.
D3	Insufficient sample was supplied for TCLP. Client was notified. TCLP was performed per the Client's instructions.
DW	Sample result is calculated on a dry weigh basis.
E	Concentration is estimated because it exceeds the quantification limits of the method.
I	The sample was read outside of the method required incubation period.
J	Reported value is estimated
L	The laboratory control sample (LCS) or laboratory control sample duplicate (LCSD) was out of control limits. Associated sample data was reported with qualifier.
M	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits due to matrix interference. The associated LCS and/or LCSD was within control limits and the sample data was reported without further clarification.
M1	The matrix spike (MS) or matrix spike duplicate (MSD) is not within control limits due to matrix interference.
M2	The matrix spike (MS) or matrix spike duplicate (MSD) was not within control limits. The associated LCS and/or LCSD was not within control limits. Sample result is estimated.
N1	Sample chromatography does not match the specified TPH standard pattern.
NC	The analyte concentration in the sample exceeded the spike level by a factor of four or greater, spike recovery and limits do not apply.
P	Sample was received without proper preservation according to EPA guidelines.
P1	Temperature of sample storage refrigerator was out of acceptance limits.
P2	The sample was preserved within 24 hours of collection in accordance with EPA 218.6.
P3	Per Client request, sample was composited for volatile analysis. Sample compositing for volatile analysis is not recommended due to potential loss of target analytes. Results may be biased low.
Q1	Analyte Calibration Verification exceeds criteria. The result is estimated.
Q2	Analyte calibration was not verified and the result was estimated.
Q3	Analyte initial calibration was not available or exceeds criteria. The result was estimated.
S	The surrogate recovery was out of control limits due to matrix interference. The associated method blank surrogate recovery was within control limits and the sample data was reported without further clarification.
S1	The associated surrogate recovery was out of control limits; result is estimated.
S2	The surrogate was diluted out due to the presence of high concentrations of target and/or non-target compounds. Surrogate recoveries in the associated batch QC met recovery criteria.
S3	Internal Standard did not meet recovery limits. Analyte concentration is estimated.
T	Sample was extracted/analyzed past the holding time.
T1	Reanalysis was reported past hold time due to failing replicates in the original analysis (BOD only).
T2	Sample was analyzed ASAP but received and analyzed past the 15 minute holding time.
T3	Sample received and analyzed out of hold time per client's request.
T4	Sample was analyzed out of hold time per client's request.
T5	Reanalysis was reported past hold time. The original analysis was within hold time, but not reportable.
T6	Hold time is indeterminable due to unspecified sampling time.
T7	Sample was analyzed past hold time due to insufficient time remaining at time of receipt.

Definitions

DF	Dilution Factor
MDL	Method Detection Limit. Result is reported ND when it is less than or equal to MDL.
ND	Analyte was not detected or was less than the detection limit.
NR	Not Reported. See Report Comments.
RDL	Reporting Detection Limit
TIC	Tentatively Identified Compounds



ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Enviro-Chem, Inc. Laboratories

Project: (180420-21 to - 23)

Date Received: 04/20/18

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: 0.0 #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: _____

Section 3

Was the cooler packed with: ☒ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam
☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: -0.9 #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: 04/20/18