Appendix D

Limited Environmental Site Characterization Report

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Technical Excellence
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Client Responsiveness

27 November 2018

Ms. Jennifer Jodoin
Director of Development Services
KT Urban
21710 Stevens Creek Boulevard, Suite 200
Cupertino, California 95014

SUBJECT: Limited Environmental Site Characterization
425 S Winchester Boulevard
San Jose, California
Langan Project No. 770657001

Dear Ms. Jodoin:

This letter report presents the results of the Limited Environmental Site Characterization (ESC) performed by Langan Engineering and Environmental Services, Inc. (Langan) for 425 Winchester Boulevard (Site) property located in San Jose, California (Figure 1). The Site is located at the northwest intersection of Olin Drive and South Winchester Boulevard and is operating as the Santana Row Gas Mart service station. Currently, the Site is operating as the Santana Row Gas Mart with three underground storage tanks (USTs) containing petroleum hydrocarbons and one waste oil UST.

The purpose of the Limited Environmental Site Characterization (ESC) was to characterize the soil and groundwater in the vicinity of the USTs and product dispenser islands to investigate if an unauthorized petroleum hydrocarbon leak has occurred.

Environmental Subsurface Investigation

On 26 October 2018, a total of four shallow borings (EB-1 through EB-4) were drilled to a maximum depth between 12 and 40 feet bgs. All environmental drilling was conducted by Gregg Drilling and Testing (Gregg) of Martinez, California. The exploratory boring locations are shown on Figure 2.

Based on the depth of the proposed excavation and in an effort to adequately characterize the soil near the USTs, soil samples were collected at the following approximate depths: 1.5, 3.0, 5.0, 7.5, 10.0, 12.0, 15.0, 20.0, 25.0, 30.0, 35.0, and 40.0 feet bgs (where applicable). Sample ends were covered with Teflon, sealed with plastic end caps, labeled, and stored on ice until delivery to the analytical laboratory. All samples were delivered under chain-of-custody control to McCampbell Analytical, Inc. (McCampbell), a California Department of Public Health certified analytical laboratory in Pittsburg, California.

Temporary groundwater monitoring wells were installed in two boring locations, EB-2 and EB-4 in order to facilitate groundwater sampling. However, after leaving the temporary wells open for over two hours, groundwater was not encountered in either location, therefore no groundwater samples were collected as a part of this investigation.

Following soil sample collection, each boring was properly abandoned via grouting. The surface of each boring was completed with asphalt or concrete, to match the existing surface of the various boring locations.

Environmental boring logs from this investigation are presented in Appendix A as Figures EB-1 through EB-4. The material encountered was classified according to the soil classification system described on Figure A-5.

Subsurface Conditions

Based on our subsurface investigation, the Site is underlain by layers of medium dense silt and clayey sand to the total depth explored of forty feet bgs, where applicable. In one boring location, EB-3, brown silt was observed from the surface to a depth of approximately twelve feet bgs. Groundwater was not encountered during this field mobilization, but according to previous environmental investigations, groundwater was observed at depths between 56.2 feet and 68.8 feet bgs (according to A Case Closure Summary Document dated 15 November 1996).

Analytical Testing

The chemical analytical schedule was chosen to satisfy profiling scenarios generally accepted by landfills. The soil samples were analyzed for some or all the following: total petroleum hydrocarbons (TPH) as gasoline (TPHg), diesel (TPHd), and motor oil (TPHmo), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), California Administrative Manual (CAM) 17 metals, and Leaking Underground Fuel Tank (LUFT) 5 metals.

Analytical Results

The soil analytical results from our subsurface investigation are presented in Tables 1 and 2. The certified laboratory reports and chain-of-custody records are presented in Appendix B.

Non-Metal Compounds

Soil analytical results for parameters other than metals are summarized in Table 1 and compared to the California Regional Water Quality Control Board (RWQCB) shallow soil environmental screening levels (ESLs) for residential and commercial use. Six SVOCs were detected at least one soil samples at concentrations below the respective residential and commercial ESLs. Bis (2-ethylhexyl) Phthalate was detected in one sample, EB-1-20 at a concentration of 0.0084 mg/kg. Di-n-butyl Phthalate was detected in three samples at concentrations between 0.0028 mg/kg to 0.0029 mg/kg. Diethyl phthalate, 2-methylnaphthalene, naphthalene, and phenanthrene were detected in one sample, EB-3-10, at concentrations between 0.0012 mg/kg

to 0.0086 mg/kg. None of the concentrations exceeded the residential or commercial ESLs and no other SVOCs was detected above laboratory reporting limits.

One soil sample, EB-4-1.5, was analyzed for OCPs. Six OCPs, a-chlordane, g-chlordane, p,p-DDD, p,p-DDE, p,p-DDT, and dieldrin were detected above laboratory reporting limits, but below their respective residential and commercial ESLs. A-chlordane was detected at a concentration of 0.00029 mg/kg; g-chlordane was detected at a concentration of 0.00069 mg/kg; p,p-DDD was detected at a concentration of 0.0014 mg/kg; p,p-DDE was detected at a concentration of 0.12 mg/kg; p,p-DDT was detected of 0.049 mg/kg; and dieldrin was detected at a concentration of 0.00024 mg/kg.

No TPHg, TPHd, TPHmo, VOCS, PCBs, or additional OCPs were detected at or above laboratory reporting limits in any of the samples analyzed.

Metals

The metal analytical results are summarized in Table 2. Total lead was detected in above the laboratory reporting limit (0.5 mg/kg) in all seven of the soil samples analyzed at concentrations ranging from 4.2 mg/kg to 8.6 mg/kg. Total chromium was detected at or above the laboratory reporting limit (50 mg/kg) in all seven of the samples analyzed at concentrations ranging from 23 mg/kg to 48 mg/kg. Nickel was detected above the laboratory reporting limit (0.5 mg/kg) in all 7 of the samples analyzed at concentrations ranging from 36 mg/kg to 74 mg/kg. None of these concentrations warranted additional STLC or TCLP analysis, since they are below the hazardous criteria.

The remaining metal concentrations were within normal[1] background ranges found in the western United States.

Discussion

The Site is located at the northwest intersection of Olin Drive and South Winchester Boulevard and is operating as the Santana Row Gas Mart service station. Currently, the Site is operating as the Santana Row Gas Mart with three underground storage tanks (USTs) containing petroleum hydrocarbons and one waste oil UST.

Based on our subsurface investigation, the Site is underlain by layers of medium dense silt and clayey sand to the total depth explored of forty feet bgs, where applicable. In one boring location, EB-3, brown silt was observed from the surface to a depth of approximately twelve feet bgs. In two exploratory borings (EB-2 and EB-4), the borings were left open for two hours to facilitate groundwater, but groundwater was not encountered at a depth of 40 feet bgs,

[1] Background concentration ranges of metals in Bay Area soils, Appendix A, Table A-2 from Environmental Resources Management. Feasibility Study, Hookston Station, Pleasant Hill, California. July 2006

The analytical results from this Limited ESC indicate that the soil underlying the Site would not require disposal at a regulated landfill and could be disposed of as an unrestrictive waste, based on the receiving facilities acceptance criteria.

LIMITATIONS

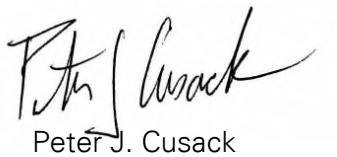
Descriptions of specific field activities and historical events are based on our observations and on information provided by others. The opinions and information presented in this report apply to Site conditions and the information that was available at the time the work was performed and do not apply to changes of which we are not aware or have not had the opportunity to evaluate. Langan makes no guarantees or warranties with respect to the accuracy or completeness of this information.

If you have any questions or require additional information, please call.

Sincerely yours,
Langan Engineering and Environmental Services, Inc.



Christine B. Madsen
Senior Staff Engineer



Peter J. Cusack
Senior Associate/VP

Attachments: Tables
Figures
Appendix A – Boring Logs
Appendix B – Laboratory Analytical Results

770657001.01 CBM_Limited Environmental Site Characterization_425 S Winchester Blvd_San Jose.docx

TABLES

Table 1
Soil Analytical Results for Non-Metals
425 S Winchester Blvd
San Jose, California

							SVOCs							OCPs									
Sample ID	**Date Sampled**	**Depth of Sample (feet bgs)**	**TPHg**	**TPHd**	**TPHmo**	**VOCS**	**Bis (2-ethylhexyl) Phthalate**	**Di-n-butyl Phthalate**	**Diethyl Phthalate**	**2-Methylnaphthalene**	**Naphthalene**	**Phenanthrene**	**All Other SVOCs**	**a-Chlordane**	**g-Chlordane**	**Endrin aldehyde**	**Methoxychlor**	**p,p-DDD**	**p,p-DDE**	**p,p-DDT**	**Dieldrin**	**All Other OCPs**	**PCBs**
Units			mg/kg																				
EB-1-1.5	10/26/2018	1.5	< 1.0	< 1.0	6.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EB-1-5	10/26/2018	5	< 1.0	< 1.0	< 5.0	ND	< 0.0050	0.0029	< 0.0050	< 0.0025	< 0.0013	< 0.0050	ND	---	---	---	---	---	---	---	---	---	ND
EB-1-15	10/26/2018	15	< 1.0	< 1.0	< 5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EB-1-20	10/26/2018	20	< 1.0	< 1.0	< 5.0	ND	0.0084	0.0028	< 0.0050	< 0.0025	< 0.0013	< 0.0050	ND	---	---	---	---	---	---	---	---	---	ND
EB-1-35	10/26/2018	35	< 1.0	< 1.0	< 5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EB-2-1.5	10/26/2018	1.5	< 1.0	< 1.0	< 5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EB-2-3	10/26/2018	3	< 1.0	< 1.0	< 5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EB-2-10	10/26/2018	10	< 1.0	< 1.0	< 5.0	ND	< 0.0050	0.0028	< 0.0050	< 0.0025	< 0.0013	< 0.0050	ND	---	---	---	---	---	---	---	---	---	ND
EB-2-15	10/26/2018	15	< 1.0	< 1.0	< 5.0	ND	< 0.0050	< 0.0025	< 0.0050	< 0.0025	< 0.0013	< 0.0050	ND	---	---	---	---	---	---	---	---	---	ND
EB-3-10	10/26/2018	10	< 1.0	< 1.0	< 5.0	ND	< 0.0050	< 0.0025	0.012	0.0051	0.0029	0.0086	ND	---	---	---	---	---	---	---	---	---	ND
EB-4-1.5	10/26/2018	1.5	< 1.0	< 1.0	< 5.0	---	---	---	---	---	---	---	---	0.00029 P	0.00069 P	< 0.00010	< 0.00020	0.0014	0.12	0.049	0.00024 P	ND	---
EB-4-3	10/26/2018	3	< 1.0	< 1.0	< 5.0	ND	< 0.0050	< 0.0025	< 0.0050	< 0.0025	< 0.0013	< 0.0050	ND	---	---	---	---	---	---	---	---	---	ND
EB-4-25	10/26/2018	25.0	< 1.0	< 1.0	< 5.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Residential ESLs			740	230	11,000	Various	39	NE	51,000	240	3.3	NE	Various	NE	NE	NE	350	2.7	1.9	1.9	0.038	NE	0.25
Commercial/Industrial ESLs			3,900	1,100	140,000	Various	160	NE	660,000	3,000	14	NE	Various	NE	NE	NE	4,800	12	8.5	8.5	0.17	NE	1

Notes:
TPH - Total Petroleum Hydrocarbons
TPHg - total petroleum hydrocarbons as gasoline
TPHd - total petroleum hydrocarbons as diesel
TPHmo - total petroleum hydrocarbons as motor oil
SVOC - Semi-Volatile Organic Compounds
VOC - Volatile Organic Compounds
p,p-DDE - Dichlorodiphenyldichloroethene
p,p-DDT - Dichlorodiphenyltrichloroehthane
OCPs - Organochlorine Pesticdes
PCB - Polychlorinated Biphenyls
bgs - below grade surface
mg/kg - milligrams per kilogram
< 50 - Analyte was not detected above the laboratory reporting limit (50 µg/L)
Bold - Exceeds Residential ESL
Residential ESLs - Direct Exposure Human Health Risk Levels (Table S-1), 22 February 2016
Commercial/Industrial ESLs - Direct Exposure Human Health Risk Levels (Table S-1), 22 February 2016
NE - Not Established
ND - No concentrations detected above respective laboratory detection limits
P - Agreement between quantitative confirmation results exceed method recommended limits.

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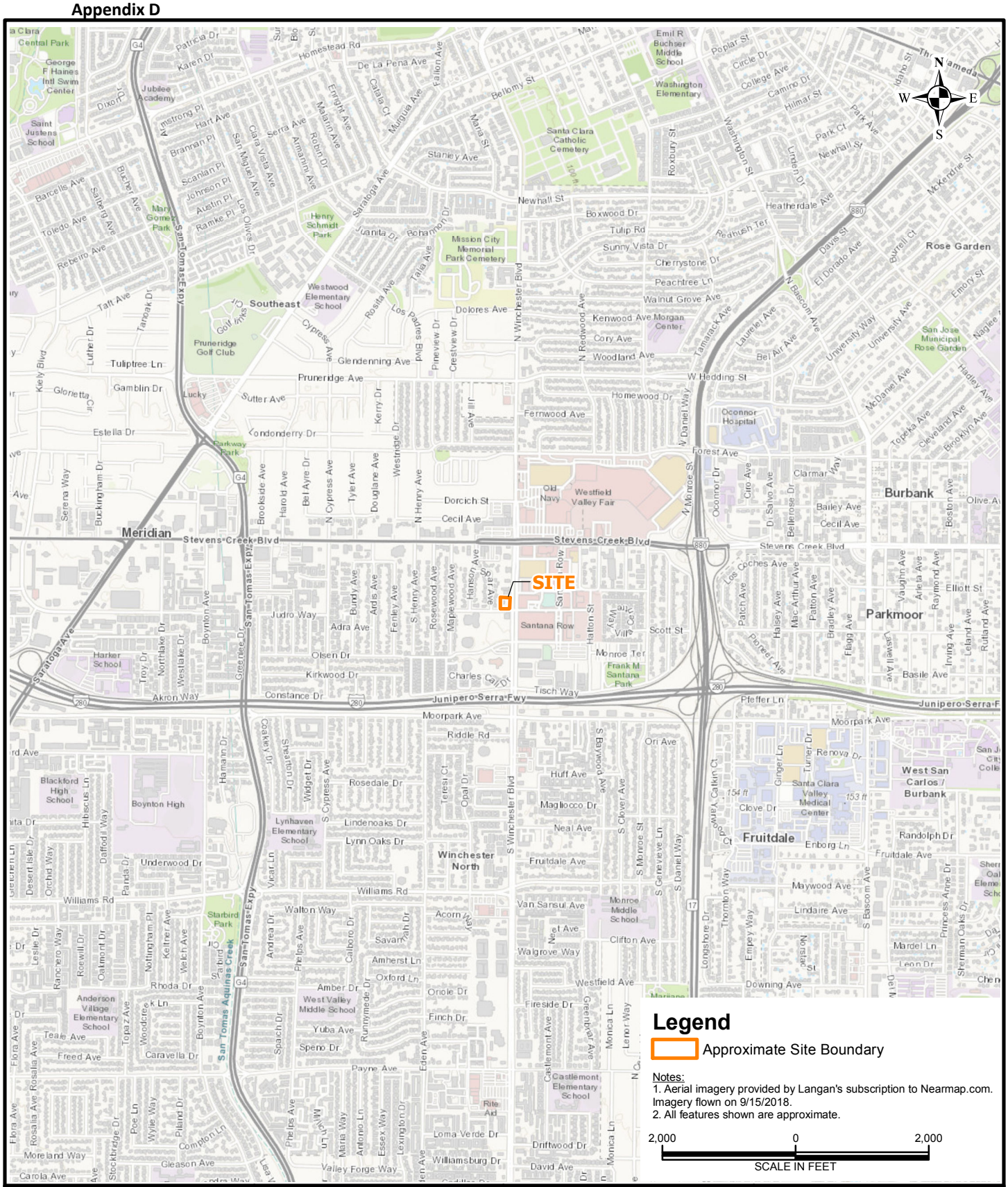
Table 2
Soil Analytical Results for Metals
425 S Winchester Blvd
San Jose, California

Sample ID	Date Sampled	Depth of Sample (feet bgs)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Units			mg/kg																
EB-1-1.5	10/26/2018	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EB-1-5	10/26/2018	5	< 0.50	5.5	150	0.56	< 0.25	41	13	26	7.0	< 0.050	0.87	66	< 0.50	< 0.50	< 0.50	48	67
EB-1-15	10/26/2018	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EB-1-20	10/26/2018	20	0.57	6.1	160	0.56	< 0.25	47	13	30	7.7	0.072	1.2	74	< 0.50	< 0.50	< 0.50	41	62
EB-1-35	10/26/2018	35	--	--	--	--	< 0.25	36	--	--	4.4	--	--	45	--	--	--	--	35
EB-2-1.5	10/26/2018	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EB-2-3	10/26/2018	3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EB-2-10	10/26/2018	10	< 0.50	5.2	100	0.51	< 0.25	39	9.8	25	6.4	< 0.050	0.94	64	< 0.50	< 0.50	< 0.50	34	55
EB-2-15	10/26/2018	15	0.57	5.7	160	0.62	< 0.25	48	13	32	8.5	0.073	1.1	74	< 0.50	< 0.50	< 0.50	43	66
EB-3-10	10/26/2018	10	< 0.50	3.0	150	< 0.50	0.54	23	5.7	15	4.2	0.056	1.1	36	0.53	< 0.50	< 0.50	34	39
EB-4-1.5	10/26/2018	1.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
EB-4-3	10/26/2018	3	< 0.50	4.7	120	< 0.50	< 0.25	45	10	25	8.6	< 0.050	0.63	65	< 0.50	< 0.50	< 0.50	36	54
EB-4-25	10/26/2018	25.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Residential ESLs			31	0.067	15,000	150	39	NE	23	3,100	80	13	390	820	390	390	1	390	23,000
Commercial/Industrial ESLs			470	0.31	220,000	2,200	580	NE	350	47,000	320	190	5,800	11,000	5,800	5,800	12	5,800	350,000
Background [Metal] in Bay Area Soils*			1.5-7.1	1.2-31	41-411	0.29-1.1	0.27-3.3	10-142	6.5-25.5	5.4-100	4.8-65	0.07-0.6	0.33-11.4	16-144	< 0.25-7	0.2-2.2	< 0.25-42.5	22-90	33-282
TTLC			500	500	10,000	75	100	2,500	8,000	2,500	1,000	20.0	3,500	2,000	100	500	700	2,400	5,000
STLC			15	5.0	100	0.75	1.0	5	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250
TCLP			--	5.0	100	--	1.0	5	--	--	5.0	0.2	--	--	1.0	5	--	--	--

Notes:
bgs - below grade surface
mg/kg - milligrams per kilogram
< 0.50 - Analyte was not detected above the laboratory reporting limit (0.50 mg/Kg)
Bold values denote hazardous exceedance
Residential ESLs - Direct Exposure Human Health Risk Levels (Table S-1), 22 February 2016
Commercial/Industrial ESLs - Direct Exposure Human Health Risk Levels (Table S-1), 22 February 2016
TTLC - Total Threshold Limited Concentration
STLC - Soluble Threshold Limited Concentration
TCLP - Toxicity Characteristic Leaching Procedure
Commercial/Industrial ESLs - Direct Exposure Human Health Risk Levels (Table S-1), 22 February 2016
NE - Not Established
*Background concentration ranges of metals in Bay Area soils, Appendix A, Table A-2 from Environmental Resources Management. *Feasibility Study, Hookston Station, Pleasant Hill, California.* July 2006

FIGURES

Appendix D

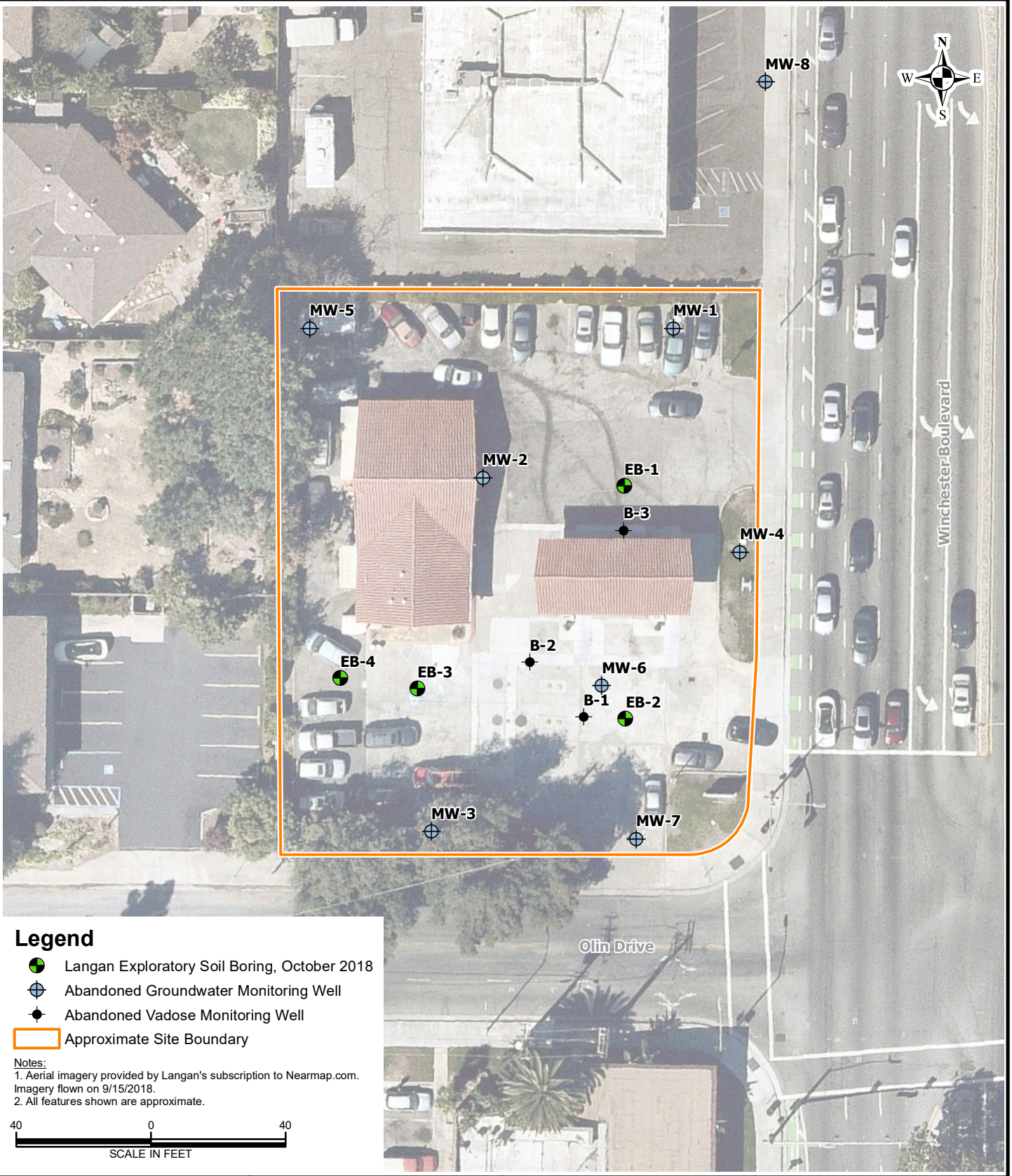


LANGAN 555 Montgomery Street, Suite 1300 San Francisco, CA 94111-2517 T: 415.955.5200 F: 415.955.5201 www.langan.com Langan Engineering & Environmental Services, Inc. Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. Langan International LLC Collectively known as Langan	Project 425 S WINCHESTER BLVD SAN JOSE SANTA CLARA CA	Drawing Title SITE LOCATION MAP	Project No. 770657001 Date 10/29/2018 Scale 1 ' = 2,000 ' Drawn By OG Figure 1

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Appendix D



Legend

- Langan Exploratory Soil Boring, October 2018
- Abandoned Groundwater Monitoring Well
- Abandoned Vadose Monitoring Well
- Approximate Site Boundary

Notes:
1. Aerial imagery provided by Langan's subscription to Nearmap.com. Imagery flown on 9/15/2018.
2. All features shown are approximate.

40 0 40
SCALE IN FEET

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Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC

Collectively known as Langan

Project	425 S WINCHESTER BLVD SAN JOSE SANTA CLARA CA
Drawing Title	SITE PLAN
Project No.	770657001
Date	11/20/2018
Scale	1 ' = 40 '
Drawn By	OG
Figure	2

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APPENDIX A

BORING LOGS

Appendix D

PROJECT: **425 SOUTH WINCHESTER BOULEVARD**
San Jose, California

Log of Boring EB-1

Boring location: See Site Plan, Figure 2 | Logged by: C. Madsen

Date started: 10/26/18 | Date finished: 10/26/18

Drilling method: Direct Push

Hammer weight/drop: NA | Hammer type: NA

Sampler: Continuous

DEPTH (feet)	Sample ID	Sample	Blow Count	Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
0							2 inches asphalt concrete (AC)
1	EB-1-1.5					SC	CLAYEY SAND (SC) brown, medium dense, dry, no odor
3	EB-1-3.5						
5	EB-1-5.0			36/36			
10	EB-1-10.0			40/40		ML	SILT (ML) brown, dense, moist, no odor
13						SP	SAND (SP) brown, loose to medium dense, dry, no odor
14				36/36			
15	EB-1-15.0					CL	CLAY (CL) soft, moist, no odor
17						SC	CLAYEY SAND (SC) brown, medium dense, moist, no odor
18				48/48			
22				48/48			
24						SP	SAND (SP) brown, medium dense, moist, no odor
25	EB-1-25.0						
26				48/48			increased gravel
28						CL	CLAY (CL) brown, soft, dry, no odor
29				48/48			
30	EB-1-30.0						

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Project No.: 770657001 | Figure: A-1a

TEST ENVIRONMENTAL INCHES 770657001.GPJ T&R.GDT 10/31/18

PROJECT: **425 SOUTH WINCHESTER BOULEVARD**
San Jose, California

Log of Boring EB-1

DEPTH (feet)	SAMPLES: Sample ID	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
31				48/48		CL	CLAY (CL) (continued)
32							SAND (SP) mottled brown, dense to very dense, moist, no odor
33							
34				48/48		SP	
35	EB-1-35.0						
36							
37							SAND with GRAVEL (SP) brown, medium dense, dry, subangular to angular gravel, no odor
38				48/48		SP	
39							
40	EB-1-40.0						
41							
42							
43							
44							
45							
46							
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60							

Boring terminated at a depth of 40 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during drilling.

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Project No.:	Figure:
770657001	A-1b

Appendix D

PROJECT: **425 SOUTH WINCHESTER BOULEVARD**
San Jose, California

Log of Boring EB-2

Boring location: See Site Plan, Figure 2 | Logged by: C. Madsen

Date started: 10/26/18 | Date finished: 10/26/18

Drilling method: Direct Push

Hammer weight/drop: NA | Hammer type: NA

Sampler: Continuous

DEPTH (feet)	Sample ID	Sample	Blow Count	Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
							4 inches concrete
1	EB-2-1.5					SC	CLAYEY SAND (SC) brown, medium dense, dry, no odor
2							
3	EB-2-3.0						
4	EB-2-4.0						
5							
6							
7	EB-2-7.5			36/36			
8							
9						ML	SILT (ML) brown, stiff, dry, no odor
10	EB-2-10.0			38/48			
11							
12							
13						SP	SAND (SP) brown, medium dense, dry, no odor
14				44/48			
15	EB-2-15.0					ML	SILT (ML) brown, stiff, dry, no odor
16							
17							
18				44/48			
19							
20	EB-2-20.0					SP	SAND (SP) brown, medium dense, fine to medium grained, with subrounded gravel less than 0.5 inches in diameter, no odor
21							
22				48/48			
23							
24						SP	SAND (SP) brown, loose to medium dense, no odor
25	EB-2-25.0					SC	CLAYEY SAND (SC) brown, medium dense, moist, no odor
26				48/48			
27							
28							
29				48/48			
30	EB-2-30.0						

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Project No.: 770657001 | Figure: A-2a

TEST ENVIRONMENTAL INCHES 770657001.GPJ T&R.GDT 10/31/18

PROJECT: **425 SOUTH WINCHESTER BOULEVARD**
San Jose, California

Log of Boring EB-2

DEPTH (feet)	SAMPLES: Sample ID	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
31				48/48		SC	CLAYEY SAND (SC) (continued)
32							
33							
34				48/48		SP	GRAVELLY SAND (SP) brown, medium dense, dry to moist, subangular gravel , no odor, historic fill (?)
35	EB-2-35.0						
36							
37							
38				48/48			
39							
40	EB-2-40.0						
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							

Boring terminated at a depth of 40 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during drilling.

LANGAN

Project No.:	Figure:
770657001	A-2b

Appendix D

PROJECT: **425 SOUTH WINCHESTER BOULEVARD**
San Jose, California

Log of Boring EB-3

Boring location: See Site Plan, Figure 2 | Logged by: C. Madsen

Date started: 10/26/18 | Date finished: 10/26/18

Drilling method: Direct Push

Hammer weight/drop: NA | Hammer type: NA

Sampler: Continuous

DEPTH (feet)	Sample ID	Sample	Blow Count	Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
0							4 inches concrete
1	EB-3-1.5					SM	SAND with SILT (SM) brown, loose to medium dense, dry, no odor
2							
3	EB-3-3.0						SILTY SAND (SM) brown and white, loose to medium dense, dry, construction debris, no odor
4						SM	
5	EB-3-5.0						
6							
7				36/36			SILT (ML) brown, very soft, no odor
8	EB-3-8.0						
9						ML	
10	EB-3-10.0			48/48			
11							
12	EB-3-12.0						
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

Boring terminated at a depth of 12 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during drilling.

LANGAN

Project No.: 770657001 | Figure: A-3

TEST ENVIRONMENTAL INCHES 770657001.GPJ T&R.GDT 10/31/18

Appendix D

PROJECT: **425 SOUTH WINCHESTER BOULEVARD**
San Jose, California

Log of Boring EB-4

Boring location: See Site Plan, Figure 2
Logged by: C. Madsen
Date started: 10/26/18
Date finished: 10/26/18
Drilling method: Direct Push
Hammer weight/drop: NA
Hammer type: NA
Sampler: Continuous

DEPTH (feet)	Sample ID	Sample	Blow Count	Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
0							2 inches asphalt concrete (AC)
1	EB-4-1.5					SC	CLAYEY SAND (SC) brown, medium dense, dry, no odor
2							
3	EB-4-3.0						
4							
5	EB-4-5.0						
6							
7				36/36		ML	SILT (ML) brown, stiff, dry, no odor
8							
9							
10	EB-4-10.0			36/48			
11							
12						SP	SAND (SP) brown, medium dense, dry, no odor
13							
14				48/48			
15	EB-4-15.0						
16						ML	SILT (ML) brown, stiff, dry, trace gravel, no odor
17							
18				48/48		SP	SAND (SP) brown, loose to medium dense, dry, with subrounded gravel less than 0.5 inches in diameter
19							
20	EB-4-20.0						
21							
22				48/48		ML	SILT with GRAVEL (ML) brown, medium stiff, dry, trace fine subrounded gravel, no odor
23							
24						SP	SAND (SP) brown, loose to medium dense, moist, no odor
25	EB-4-25.0						
26				48/48			
27						SC	CLAYEY SAND (SC) brown, soft, moist, no odor
28							
29				48/48			
30	EB-4-30.0						

LANGAN

Project No.: 770657001
Figure: A-4a

TEST ENVIRONMENTAL INCHES 770657001.GPJ T&R.GDT 10/31/18

PROJECT: **425 SOUTH WINCHESTER BOULEVARD**
San Jose, California

Log of Boring EB-4

DEPTH (feet)	SAMPLES: Sample ID	SAMPLES: Sample	SAMPLES: Blow Count	SAMPLES: Recovery (Inches)	PID (ppm)	LITHOLOGY	MATERIAL DESCRIPTION
31				48/48			CLAYEY SAND (SC) (continued)
32						SP	SAND (SP) brown, medium dense, moist, no odor
33							GRAVELLY SAND (SP) medium dense, dry, brick debris (historic fill?), no odor
34				48/48			
35	EB-4-35.0	●				SP	
36							
37							
38				48/48			
39						SC	CLAYEY SAND (SC) brown, loose to medium dense, moist to wet, no odor
40	EB-4-40.0	●				SP	SAND with GRAVEL (SP) brown, dry to moist, historic fill (?), no odor
41							
42							
43							
44							
45							
46							
47							
48							
49							
50							
51							
52							
53							
54							
55							
56							
57							
58							
59							
60							

Boring terminated at a depth of 40 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during drilling.

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Project No.:	Figure:
770657001	A-4b

Appendix D

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	**Gravels** (More than half of coarse fraction > no. 4 sieve size)	**GW**	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	**SW**	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	**Silts and Clays** LL = < 50	**ML**	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	**MH**	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		**PT**	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.075
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push or Drive sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

425 SOUTH WINCHESTER BOULEVARD
San Jose, California

LANGAN

CLASSIFICATION CHART

Date 09/06/06 | Project No. 770657001 | Figure A-5

APPENDIX B

LABORATORY ANALYTICAL RESULTS

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1810E58 **Amended:** 11/19/2018

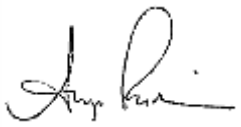
Report Created for: Langan

1 Almaden Blvd, Suite 590
San Jose, CA 95113

Project Contact: Peter Cusack
Project P.O.:
Project: 770657001; 425 S. Winchester blvd

Project Received: 10/29/2018

Analytical Report reviewed & approved for release on 11/06/2018 by:



Angela Rydelius
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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CA ELAP 1644 ♦ NELAP 4033 ORELAP

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Glossary of Terms & Qualifier Definitions

Client: Langan
Project: 770657001; 425 S. Winchester blvd
WorkOrder: 1810E58

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: Langan
Project: 770657001; 425 S. Winchester blvd
WorkOrder: 1810E58

Analytical Qualifiers

P	Agreement between quantitative confirmation results exceed method recommended limits
c1	Surrogate recovery outside of the control limits due to the dilution of the sample.
e7	Oil range compounds are significant

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.
F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	10/30/18	**Analytical Method:**	SW8081A
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Organochlorine Pesticides

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-1.5	**1810E58-029A**	**Soil**	**10/26/2018 09:05**	**GC23 11011831.d**	**167481**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Aldrin	ND		0.00010	1	11/02/2018 01:28
a-BHC	ND		0.00010	1	11/02/2018 01:28
b-BHC	ND		0.00030	1	11/02/2018 01:28
d-BHC	ND		0.00020	1	11/02/2018 01:28
g-BHC	ND		0.00010	1	11/02/2018 01:28
Chlordane (Technical)	ND		0.0025	1	11/02/2018 01:28
a-Chlordane	**0.00029**	P	0.00010	1	11/02/2018 01:28
g-Chlordane	**0.00069**	P	0.00010	1	11/02/2018 01:28
p,p-DDD	**0.0014**		0.00010	1	11/02/2018 01:28
p,p-DDE	**0.12**		0.010	100	11/19/2018 16:14
p,p-DDT	**0.049**		0.010	100	11/19/2018 16:14
Dieldrin	**0.00024**	P	0.00010	1	11/02/2018 01:28
Endosulfan I	ND		0.00010	1	11/02/2018 01:28
Endosulfan II	ND		0.00010	1	11/02/2018 01:28
Endosulfan sulfate	ND		0.00010	1	11/02/2018 01:28
Endrin	ND		0.00010	1	11/02/2018 01:28
Endrin aldehyde	ND		0.00010	1	11/02/2018 01:28
Endrin ketone	ND		0.00010	1	11/02/2018 01:28
Heptachlor	ND		0.00010	1	11/02/2018 01:28
Heptachlor epoxide	ND		0.00010	1	11/02/2018 01:28
Hexachlorobenzene	ND		0.0010	1	11/02/2018 01:28
Hexachlorocyclopentadiene	ND		0.0020	1	11/02/2018 01:28
Methoxychlor	ND		0.00020	1	11/02/2018 01:28
Toxaphene	ND		0.0050	1	11/02/2018 01:28

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	79	20-145	11/02/2018 01:28

Analyst(s): LT Analytical Comments: c1

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Analytical Report

Client: Langan
Date Received: 10/29/18 16:30
Date Prepared: 10/30/18
Project: 770657001; 425 S. Winchester blvd

WorkOrder: 1810E58
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	1810E58-003A	Soil	10/26/2018 11:28	GC40 10301854.d	167477

Analytes	Result	MDL	RL	DF	Date Analyzed
Aroclor1016	ND	0.0051	0.050	1	10/31/2018 02:56
Aroclor1221	ND	0.033	0.050	1	10/31/2018 02:56
Aroclor1232	ND	0.0032	0.050	1	10/31/2018 02:56
Aroclor1242	ND	0.0035	0.050	1	10/31/2018 02:56
Aroclor1248	ND	0.0036	0.050	1	10/31/2018 02:56
Aroclor1254	ND	0.0022	0.050	1	10/31/2018 02:56
Aroclor1260	ND	0.0085	0.050	1	10/31/2018 02:56
PCBs, total	ND	NA	0.050	1	10/31/2018 02:56

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	91	70-130	10/31/2018 02:56

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	1810E58-007A	Soil	10/26/2018 11:46	GC40 10301847.d	167477

Analytes	Result	MDL	RL	DF	Date Analyzed
Aroclor1016	ND	0.0051	0.050	1	10/31/2018 01:18
Aroclor1221	ND	0.033	0.050	1	10/31/2018 01:18
Aroclor1232	ND	0.0032	0.050	1	10/31/2018 01:18
Aroclor1242	ND	0.0035	0.050	1	10/31/2018 01:18
Aroclor1248	ND	0.0036	0.050	1	10/31/2018 01:18
Aroclor1254	ND	0.0022	0.050	1	10/31/2018 01:18
Aroclor1260	ND	0.0085	0.050	1	10/31/2018 01:18
PCBs, total	ND	NA	0.050	1	10/31/2018 01:18

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	94	70-130	10/31/2018 01:18

Analyst(s): LT

(Cont.)

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Analytical Report

Client: Langan
Date Received: 10/29/18 16:30
Date Prepared: 10/30/18
Project: 770657001; 425 S. Winchester blvd

WorkOrder: 1810E58
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	1810E58-016A	Soil	10/26/2018 10:36	GC40 10301849.d	167477

Analytes	Result	MDL	RL	DF	Date Analyzed
Aroclor1016	ND	0.0051	0.050	1	10/31/2018 01:46
Aroclor1221	ND	0.033	0.050	1	10/31/2018 01:46
Aroclor1232	ND	0.0032	0.050	1	10/31/2018 01:46
Aroclor1242	ND	0.0035	0.050	1	10/31/2018 01:46
Aroclor1248	ND	0.0036	0.050	1	10/31/2018 01:46
Aroclor1254	ND	0.0022	0.050	1	10/31/2018 01:46
Aroclor1260	ND	0.0085	0.050	1	10/31/2018 01:46
PCBs, total	ND	NA	0.050	1	10/31/2018 01:46

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	93	70-130	10/31/2018 01:46

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	1810E58-017A	Soil	10/26/2018 10:39	GC40 10301855.d	167477

Analytes	Result	MDL	RL	DF	Date Analyzed
Aroclor1016	ND	0.0051	0.050	1	10/31/2018 03:10
Aroclor1221	ND	0.033	0.050	1	10/31/2018 03:10
Aroclor1232	ND	0.0032	0.050	1	10/31/2018 03:10
Aroclor1242	ND	0.0035	0.050	1	10/31/2018 03:10
Aroclor1248	ND	0.0036	0.050	1	10/31/2018 03:10
Aroclor1254	ND	0.0022	0.050	1	10/31/2018 03:10
Aroclor1260	ND	0.0085	0.050	1	10/31/2018 03:10
PCBs, total	ND	NA	0.050	1	10/31/2018 03:10

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	94	70-130	10/31/2018 03:10

Analyst(s): LT

(Cont.)

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Analytical Report

Client: Langan
Date Received: 10/29/18 16:30
Date Prepared: 10/30/18
Project: 770657001; 425 S. Winchester blvd

WorkOrder: 1810E58
Extraction Method: SW3550B
Analytical Method: SW8082
Unit: mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	1810E58-027A	Soil	10/26/2018 08:55	GC40 10301856.d	167477

Analytes	Result	MDL	RL	DF	Date Analyzed
Aroclor1016	ND	0.0051	0.050	1	10/31/2018 03:24
Aroclor1221	ND	0.033	0.050	1	10/31/2018 03:24
Aroclor1232	ND	0.0032	0.050	1	10/31/2018 03:24
Aroclor1242	ND	0.0035	0.050	1	10/31/2018 03:24
Aroclor1248	ND	0.0036	0.050	1	10/31/2018 03:24
Aroclor1254	ND	0.0022	0.050	1	10/31/2018 03:24
Aroclor1260	ND	0.0085	0.050	1	10/31/2018 03:24
PCBs, total	ND	NA	0.050	1	10/31/2018 03:24

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	97	70-130	10/31/2018 03:24

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	1810E58-030A	Soil	10/26/2018 09:10	GC40 10301848.d	167477

Analytes	Result	MDL	RL	DF	Date Analyzed
Aroclor1016	ND	0.0051	0.050	1	10/31/2018 01:32
Aroclor1221	ND	0.033	0.050	1	10/31/2018 01:32
Aroclor1232	ND	0.0032	0.050	1	10/31/2018 01:32
Aroclor1242	ND	0.0035	0.050	1	10/31/2018 01:32
Aroclor1248	ND	0.0036	0.050	1	10/31/2018 01:32
Aroclor1254	ND	0.0022	0.050	1	10/31/2018 01:32
Aroclor1260	ND	0.0085	0.050	1	10/31/2018 01:32
PCBs, total	ND	NA	0.050	1	10/31/2018 01:32

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	92	70-130	10/31/2018 01:32

Analyst(s): LT

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	1810E58-003A	Soil	10/26/2018 11:28	GC38 11011811.D	167509

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/01/2018 14:28
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/01/2018 14:28
Benzene	ND	0.0050	1	11/01/2018 14:28
Bromobenzene	ND	0.0050	1	11/01/2018 14:28
Bromochloromethane	ND	0.0050	1	11/01/2018 14:28
Bromodichloromethane	ND	0.0010	1	11/01/2018 14:28
Bromoform	ND	0.0050	1	11/01/2018 14:28
Bromomethane	ND	0.0050	1	11/01/2018 14:28
2-Butanone (MEK)	ND	0.020	1	11/01/2018 14:28
t-Butyl alcohol (TBA)	ND	0.050	1	11/01/2018 14:28
n-Butyl benzene	ND	0.0050	1	11/01/2018 14:28
sec-Butyl benzene	ND	0.0050	1	11/01/2018 14:28
tert-Butyl benzene	ND	0.0050	1	11/01/2018 14:28
Carbon Disulfide	ND	0.0050	1	11/01/2018 14:28
Carbon Tetrachloride	ND	0.0050	1	11/01/2018 14:28
Chlorobenzene	ND	0.0050	1	11/01/2018 14:28
Chloroethane	ND	0.0050	1	11/01/2018 14:28
Chloroform	ND	0.0050	1	11/01/2018 14:28
Chloromethane	ND	0.0050	1	11/01/2018 14:28
2-Chlorotoluene	ND	0.0050	1	11/01/2018 14:28
4-Chlorotoluene	ND	0.0050	1	11/01/2018 14:28
Dibromochloromethane	ND	0.0050	1	11/01/2018 14:28
1,2-Dibromo-3-chloropropane	ND	0.00025	1	11/01/2018 14:28
1,2-Dibromoethane (EDB)	ND	0.00010	1	11/01/2018 14:28
Dibromomethane	ND	0.0050	1	11/01/2018 14:28
1,2-Dichlorobenzene	ND	0.0050	1	11/01/2018 14:28
1,3-Dichlorobenzene	ND	0.0050	1	11/01/2018 14:28
1,4-Dichlorobenzene	ND	0.0050	1	11/01/2018 14:28
Dichlorodifluoromethane	ND	0.0050	1	11/01/2018 14:28
1,1-Dichloroethane	ND	0.0050	1	11/01/2018 14:28
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	11/01/2018 14:28
1,1-Dichloroethene	ND	0.00025	1	11/01/2018 14:28
cis-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 14:28
trans-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 14:28
1,2-Dichloropropane	ND	0.0050	1	11/01/2018 14:28
1,3-Dichloropropane	ND	0.0050	1	11/01/2018 14:28
2,2-Dichloropropane	ND	0.0050	1	11/01/2018 14:28

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	1810E58-003A	Soil	10/26/2018 11:28	GC38 11011811.D	167509

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/01/2018 14:28
cis-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 14:28
trans-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 14:28
Diisopropyl ether (DIPE)	ND	0.0050	1	11/01/2018 14:28
Ethylbenzene	ND	0.0050	1	11/01/2018 14:28
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/01/2018 14:28
Freon 113	ND	0.0050	1	11/01/2018 14:28
Hexachlorobutadiene	ND	0.0050	1	11/01/2018 14:28
Hexachloroethane	ND	0.0050	1	11/01/2018 14:28
2-Hexanone	ND	0.0050	1	11/01/2018 14:28
Isopropylbenzene	ND	0.0050	1	11/01/2018 14:28
4-Isopropyl toluene	ND	0.0050	1	11/01/2018 14:28
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/01/2018 14:28
Methylene chloride	ND	0.010	1	11/01/2018 14:28
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/01/2018 14:28
Naphthalene	ND	0.0050	1	11/01/2018 14:28
n-Propyl benzene	ND	0.0050	1	11/01/2018 14:28
Styrene	ND	0.0050	1	11/01/2018 14:28
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/01/2018 14:28
1,1,2,2-Tetrachloroethane	ND	0.00025	1	11/01/2018 14:28
Tetrachloroethene	ND	0.00025	1	11/01/2018 14:28
Toluene	ND	0.0050	1	11/01/2018 14:28
1,2,3-Trichlorobenzene	ND	0.0050	1	11/01/2018 14:28
1,2,4-Trichlorobenzene	ND	0.0050	1	11/01/2018 14:28
1,1,1-Trichloroethane	ND	0.0050	1	11/01/2018 14:28
1,1,2-Trichloroethane	ND	0.0050	1	11/01/2018 14:28
Trichloroethene	ND	0.0050	1	11/01/2018 14:28
Trichlorofluoromethane	ND	0.0050	1	11/01/2018 14:28
1,2,3-Trichloropropane	ND	0.00025	1	11/01/2018 14:28
1,2,4-Trimethylbenzene	ND	0.0050	1	11/01/2018 14:28
1,3,5-Trimethylbenzene	ND	0.0050	1	11/01/2018 14:28
Vinyl Chloride	ND	0.00025	1	11/01/2018 14:28
m,p-Xylene	ND	0.0050	1	11/01/2018 14:28
o-Xylene	ND	0.0050	1	11/01/2018 14:28
Xylenes, Total	ND	0.0050	1	11/01/2018 14:28

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	**1810E58-003A**	**Soil**	**10/26/2018 11:28**	**GC38 11011811.D**	**167509**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	103	82-136		11/01/2018 14:28
Toluene-d8	120	92-139		11/01/2018 14:28
4-BFB	121	82-135		11/01/2018 14:28
Benzene-d6	80	55-122		11/01/2018 14:28
Ethylbenzene-d10	109	58-141		11/01/2018 14:28
1,2-DCB-d4	75	51-107		11/01/2018 14:28

Analyst(s): KF

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	1810E58-007A	Soil	10/26/2018 11:46	GC38 11011813.D	167509

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/01/2018 15:43
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/01/2018 15:43
Benzene	ND	0.0050	1	11/01/2018 15:43
Bromobenzene	ND	0.0050	1	11/01/2018 15:43
Bromochloromethane	ND	0.0050	1	11/01/2018 15:43
Bromodichloromethane	ND	0.0010	1	11/01/2018 15:43
Bromoform	ND	0.0050	1	11/01/2018 15:43
Bromomethane	ND	0.0050	1	11/01/2018 15:43
2-Butanone (MEK)	ND	0.020	1	11/01/2018 15:43
t-Butyl alcohol (TBA)	ND	0.050	1	11/01/2018 15:43
n-Butyl benzene	ND	0.0050	1	11/01/2018 15:43
sec-Butyl benzene	ND	0.0050	1	11/01/2018 15:43
tert-Butyl benzene	ND	0.0050	1	11/01/2018 15:43
Carbon Disulfide	ND	0.0050	1	11/01/2018 15:43
Carbon Tetrachloride	ND	0.0050	1	11/01/2018 15:43
Chlorobenzene	ND	0.0050	1	11/01/2018 15:43
Chloroethane	ND	0.0050	1	11/01/2018 15:43
Chloroform	ND	0.0050	1	11/01/2018 15:43
Chloromethane	ND	0.0050	1	11/01/2018 15:43
2-Chlorotoluene	ND	0.0050	1	11/01/2018 15:43
4-Chlorotoluene	ND	0.0050	1	11/01/2018 15:43
Dibromochloromethane	ND	0.0050	1	11/01/2018 15:43
1,2-Dibromo-3-chloropropane	ND	0.00025	1	11/01/2018 15:43
1,2-Dibromoethane (EDB)	ND	0.00010	1	11/01/2018 15:43
Dibromomethane	ND	0.0050	1	11/01/2018 15:43
1,2-Dichlorobenzene	ND	0.0050	1	11/01/2018 15:43
1,3-Dichlorobenzene	ND	0.0050	1	11/01/2018 15:43
1,4-Dichlorobenzene	ND	0.0050	1	11/01/2018 15:43
Dichlorodifluoromethane	ND	0.0050	1	11/01/2018 15:43
1,1-Dichloroethane	ND	0.0050	1	11/01/2018 15:43
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	11/01/2018 15:43
1,1-Dichloroethene	ND	0.00025	1	11/01/2018 15:43
cis-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 15:43
trans-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 15:43
1,2-Dichloropropane	ND	0.0050	1	11/01/2018 15:43
1,3-Dichloropropane	ND	0.0050	1	11/01/2018 15:43
2,2-Dichloropropane	ND	0.0050	1	11/01/2018 15:43

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	1810E58-007A	Soil	10/26/2018 11:46	GC38 11011813.D	167509

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/01/2018 15:43
cis-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 15:43
trans-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 15:43
Diisopropyl ether (DIPE)	ND	0.0050	1	11/01/2018 15:43
Ethylbenzene	ND	0.0050	1	11/01/2018 15:43
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/01/2018 15:43
Freon 113	ND	0.0050	1	11/01/2018 15:43
Hexachlorobutadiene	ND	0.0050	1	11/01/2018 15:43
Hexachloroethane	ND	0.0050	1	11/01/2018 15:43
2-Hexanone	ND	0.0050	1	11/01/2018 15:43
Isopropylbenzene	ND	0.0050	1	11/01/2018 15:43
4-Isopropyl toluene	ND	0.0050	1	11/01/2018 15:43
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/01/2018 15:43
Methylene chloride	ND	0.010	1	11/01/2018 15:43
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/01/2018 15:43
Naphthalene	ND	0.0050	1	11/01/2018 15:43
n-Propyl benzene	ND	0.0050	1	11/01/2018 15:43
Styrene	ND	0.0050	1	11/01/2018 15:43
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/01/2018 15:43
1,1,2,2-Tetrachloroethane	ND	0.00025	1	11/01/2018 15:43
Tetrachloroethene	ND	0.00025	1	11/01/2018 15:43
Toluene	ND	0.0050	1	11/01/2018 15:43
1,2,3-Trichlorobenzene	ND	0.0050	1	11/01/2018 15:43
1,2,4-Trichlorobenzene	ND	0.0050	1	11/01/2018 15:43
1,1,1-Trichloroethane	ND	0.0050	1	11/01/2018 15:43
1,1,2-Trichloroethane	ND	0.0050	1	11/01/2018 15:43
Trichloroethene	ND	0.0050	1	11/01/2018 15:43
Trichlorofluoromethane	ND	0.0050	1	11/01/2018 15:43
1,2,3-Trichloropropane	ND	0.00025	1	11/01/2018 15:43
1,2,4-Trimethylbenzene	ND	0.0050	1	11/01/2018 15:43
1,3,5-Trimethylbenzene	ND	0.0050	1	11/01/2018 15:43
Vinyl Chloride	ND	0.00025	1	11/01/2018 15:43
m,p-Xylene	ND	0.0050	1	11/01/2018 15:43
o-Xylene	ND	0.0050	1	11/01/2018 15:43
Xylenes, Total	ND	0.0050	1	11/01/2018 15:43

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	1810E58-007A	Soil	10/26/2018 11:46	GC38 11011813.D	167509

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	111	82-136		11/01/2018 15:43
Toluene-d8	117	92-139		11/01/2018 15:43
4-BFB	121	82-135		11/01/2018 15:43
Benzene-d6	78	55-122		11/01/2018 15:43
Ethylbenzene-d10	95	58-141		11/01/2018 15:43
1,2-DCB-d4	68	51-107		11/01/2018 15:43

Analyst(s): KF

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	1810E58-016A	Soil	10/26/2018 10:36	GC38 11011812.D	167509

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/01/2018 15:05
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/01/2018 15:05
Benzene	ND	0.0050	1	11/01/2018 15:05
Bromobenzene	ND	0.0050	1	11/01/2018 15:05
Bromochloromethane	ND	0.0050	1	11/01/2018 15:05
Bromodichloromethane	ND	0.0010	1	11/01/2018 15:05
Bromoform	ND	0.0050	1	11/01/2018 15:05
Bromomethane	ND	0.0050	1	11/01/2018 15:05
2-Butanone (MEK)	ND	0.020	1	11/01/2018 15:05
t-Butyl alcohol (TBA)	ND	0.050	1	11/01/2018 15:05
n-Butyl benzene	ND	0.0050	1	11/01/2018 15:05
sec-Butyl benzene	ND	0.0050	1	11/01/2018 15:05
tert-Butyl benzene	ND	0.0050	1	11/01/2018 15:05
Carbon Disulfide	ND	0.0050	1	11/01/2018 15:05
Carbon Tetrachloride	ND	0.0050	1	11/01/2018 15:05
Chlorobenzene	ND	0.0050	1	11/01/2018 15:05
Chloroethane	ND	0.0050	1	11/01/2018 15:05
Chloroform	ND	0.0050	1	11/01/2018 15:05
Chloromethane	ND	0.0050	1	11/01/2018 15:05
2-Chlorotoluene	ND	0.0050	1	11/01/2018 15:05
4-Chlorotoluene	ND	0.0050	1	11/01/2018 15:05
Dibromochloromethane	ND	0.0050	1	11/01/2018 15:05
1,2-Dibromo-3-chloropropane	ND	0.00025	1	11/01/2018 15:05
1,2-Dibromoethane (EDB)	ND	0.00010	1	11/01/2018 15:05
Dibromomethane	ND	0.0050	1	11/01/2018 15:05
1,2-Dichlorobenzene	ND	0.0050	1	11/01/2018 15:05
1,3-Dichlorobenzene	ND	0.0050	1	11/01/2018 15:05
1,4-Dichlorobenzene	ND	0.0050	1	11/01/2018 15:05
Dichlorodifluoromethane	ND	0.0050	1	11/01/2018 15:05
1,1-Dichloroethane	ND	0.0050	1	11/01/2018 15:05
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	11/01/2018 15:05
1,1-Dichloroethene	ND	0.00025	1	11/01/2018 15:05
cis-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 15:05
trans-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 15:05
1,2-Dichloropropane	ND	0.0050	1	11/01/2018 15:05
1,3-Dichloropropane	ND	0.0050	1	11/01/2018 15:05
2,2-Dichloropropane	ND	0.0050	1	11/01/2018 15:05

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	1810E58-016A	Soil	10/26/2018 10:36	GC38 11011812.D	167509

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/01/2018 15:05
cis-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 15:05
trans-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 15:05
Diisopropyl ether (DIPE)	ND	0.0050	1	11/01/2018 15:05
Ethylbenzene	ND	0.0050	1	11/01/2018 15:05
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/01/2018 15:05
Freon 113	ND	0.0050	1	11/01/2018 15:05
Hexachlorobutadiene	ND	0.0050	1	11/01/2018 15:05
Hexachloroethane	ND	0.0050	1	11/01/2018 15:05
2-Hexanone	ND	0.0050	1	11/01/2018 15:05
Isopropylbenzene	ND	0.0050	1	11/01/2018 15:05
4-Isopropyl toluene	ND	0.0050	1	11/01/2018 15:05
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/01/2018 15:05
Methylene chloride	ND	0.010	1	11/01/2018 15:05
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/01/2018 15:05
Naphthalene	ND	0.0050	1	11/01/2018 15:05
n-Propyl benzene	ND	0.0050	1	11/01/2018 15:05
Styrene	ND	0.0050	1	11/01/2018 15:05
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/01/2018 15:05
1,1,2,2-Tetrachloroethane	ND	0.00025	1	11/01/2018 15:05
Tetrachloroethene	ND	0.00025	1	11/01/2018 15:05
Toluene	ND	0.0050	1	11/01/2018 15:05
1,2,3-Trichlorobenzene	ND	0.0050	1	11/01/2018 15:05
1,2,4-Trichlorobenzene	ND	0.0050	1	11/01/2018 15:05
1,1,1-Trichloroethane	ND	0.0050	1	11/01/2018 15:05
1,1,2-Trichloroethane	ND	0.0050	1	11/01/2018 15:05
Trichloroethene	ND	0.0050	1	11/01/2018 15:05
Trichlorofluoromethane	ND	0.0050	1	11/01/2018 15:05
1,2,3-Trichloropropane	ND	0.00025	1	11/01/2018 15:05
1,2,4-Trimethylbenzene	ND	0.0050	1	11/01/2018 15:05
1,3,5-Trimethylbenzene	ND	0.0050	1	11/01/2018 15:05
Vinyl Chloride	ND	0.00025	1	11/01/2018 15:05
m,p-Xylene	ND	0.0050	1	11/01/2018 15:05
o-Xylene	ND	0.0050	1	11/01/2018 15:05
Xylenes, Total	ND	0.0050	1	11/01/2018 15:05

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	1810E58-016A	Soil	10/26/2018 10:36	GC38 11011812.D	167509

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	112	82-136		11/01/2018 15:05
Toluene-d8	116	92-139		11/01/2018 15:05
4-BFB	116	82-135		11/01/2018 15:05
Benzene-d6	68	55-122		11/01/2018 15:05
Ethylbenzene-d10	85	58-141		11/01/2018 15:05
1,2-DCB-d4	63	51-107		11/01/2018 15:05

Analyst(s): KF

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	1810E58-017A	Soil	10/26/2018 10:39	GC38 11011814.D	167509

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/01/2018 16:21
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/01/2018 16:21
Benzene	ND	0.0050	1	11/01/2018 16:21
Bromobenzene	ND	0.0050	1	11/01/2018 16:21
Bromochloromethane	ND	0.0050	1	11/01/2018 16:21
Bromodichloromethane	ND	0.0010	1	11/01/2018 16:21
Bromoform	ND	0.0050	1	11/01/2018 16:21
Bromomethane	ND	0.0050	1	11/01/2018 16:21
2-Butanone (MEK)	ND	0.020	1	11/01/2018 16:21
t-Butyl alcohol (TBA)	ND	0.050	1	11/01/2018 16:21
n-Butyl benzene	ND	0.0050	1	11/01/2018 16:21
sec-Butyl benzene	ND	0.0050	1	11/01/2018 16:21
tert-Butyl benzene	ND	0.0050	1	11/01/2018 16:21
Carbon Disulfide	ND	0.0050	1	11/01/2018 16:21
Carbon Tetrachloride	ND	0.0050	1	11/01/2018 16:21
Chlorobenzene	ND	0.0050	1	11/01/2018 16:21
Chloroethane	ND	0.0050	1	11/01/2018 16:21
Chloroform	ND	0.0050	1	11/01/2018 16:21
Chloromethane	ND	0.0050	1	11/01/2018 16:21
2-Chlorotoluene	ND	0.0050	1	11/01/2018 16:21
4-Chlorotoluene	ND	0.0050	1	11/01/2018 16:21
Dibromochloromethane	ND	0.0050	1	11/01/2018 16:21
1,2-Dibromo-3-chloropropane	ND	0.00025	1	11/01/2018 16:21
1,2-Dibromoethane (EDB)	ND	0.00010	1	11/01/2018 16:21
Dibromomethane	ND	0.0050	1	11/01/2018 16:21
1,2-Dichlorobenzene	ND	0.0050	1	11/01/2018 16:21
1,3-Dichlorobenzene	ND	0.0050	1	11/01/2018 16:21
1,4-Dichlorobenzene	ND	0.0050	1	11/01/2018 16:21
Dichlorodifluoromethane	ND	0.0050	1	11/01/2018 16:21
1,1-Dichloroethane	ND	0.0050	1	11/01/2018 16:21
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	11/01/2018 16:21
1,1-Dichloroethene	ND	0.00025	1	11/01/2018 16:21
cis-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 16:21
trans-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 16:21
1,2-Dichloropropane	ND	0.0050	1	11/01/2018 16:21
1,3-Dichloropropane	ND	0.0050	1	11/01/2018 16:21
2,2-Dichloropropane	ND	0.0050	1	11/01/2018 16:21

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	1810E58-017A	Soil	10/26/2018 10:39	GC38 11011814.D	167509

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/01/2018 16:21
cis-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 16:21
trans-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 16:21
Diisopropyl ether (DIPE)	ND	0.0050	1	11/01/2018 16:21
Ethylbenzene	ND	0.0050	1	11/01/2018 16:21
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/01/2018 16:21
Freon 113	ND	0.0050	1	11/01/2018 16:21
Hexachlorobutadiene	ND	0.0050	1	11/01/2018 16:21
Hexachloroethane	ND	0.0050	1	11/01/2018 16:21
2-Hexanone	ND	0.0050	1	11/01/2018 16:21
Isopropylbenzene	ND	0.0050	1	11/01/2018 16:21
4-Isopropyl toluene	ND	0.0050	1	11/01/2018 16:21
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/01/2018 16:21
Methylene chloride	ND	0.010	1	11/01/2018 16:21
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/01/2018 16:21
Naphthalene	ND	0.0050	1	11/01/2018 16:21
n-Propyl benzene	ND	0.0050	1	11/01/2018 16:21
Styrene	ND	0.0050	1	11/01/2018 16:21
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/01/2018 16:21
1,1,2,2-Tetrachloroethane	ND	0.00025	1	11/01/2018 16:21
Tetrachloroethene	ND	0.00025	1	11/01/2018 16:21
Toluene	ND	0.0050	1	11/01/2018 16:21
1,2,3-Trichlorobenzene	ND	0.0050	1	11/01/2018 16:21
1,2,4-Trichlorobenzene	ND	0.0050	1	11/01/2018 16:21
1,1,1-Trichloroethane	ND	0.0050	1	11/01/2018 16:21
1,1,2-Trichloroethane	ND	0.0050	1	11/01/2018 16:21
Trichloroethene	ND	0.0050	1	11/01/2018 16:21
Trichlorofluoromethane	ND	0.0050	1	11/01/2018 16:21
1,2,3-Trichloropropane	ND	0.00025	1	11/01/2018 16:21
1,2,4-Trimethylbenzene	ND	0.0050	1	11/01/2018 16:21
1,3,5-Trimethylbenzene	ND	0.0050	1	11/01/2018 16:21
Vinyl Chloride	ND	0.00025	1	11/01/2018 16:21
m,p-Xylene	ND	0.0050	1	11/01/2018 16:21
o-Xylene	ND	0.0050	1	11/01/2018 16:21
Xylenes, Total	ND	0.0050	1	11/01/2018 16:21

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	**1810E58-017A**	**Soil**	**10/26/2018 10:39**	**GC38 11011814.D**	**167509**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	112	82-136		11/01/2018 16:21
Toluene-d8	118	92-139		11/01/2018 16:21
4-BFB	118	82-135		11/01/2018 16:21
Benzene-d6	79	55-122		11/01/2018 16:21
Ethylbenzene-d10	97	58-141		11/01/2018 16:21
1,2-DCB-d4	68	51-107		11/01/2018 16:21

Analyst(s): KF

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	1810E58-027A	Soil	10/26/2018 08:55	GC38 11011815.D	167509

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	11/01/2018 16:58
tert-Amyl methyl ether (TAME)	ND	0.0050	1	11/01/2018 16:58
Benzene	ND	0.0050	1	11/01/2018 16:58
Bromobenzene	ND	0.0050	1	11/01/2018 16:58
Bromochloromethane	ND	0.0050	1	11/01/2018 16:58
Bromodichloromethane	ND	0.0010	1	11/01/2018 16:58
Bromoform	ND	0.0050	1	11/01/2018 16:58
Bromomethane	ND	0.0050	1	11/01/2018 16:58
2-Butanone (MEK)	ND	0.020	1	11/01/2018 16:58
t-Butyl alcohol (TBA)	ND	0.050	1	11/01/2018 16:58
n-Butyl benzene	ND	0.0050	1	11/01/2018 16:58
sec-Butyl benzene	ND	0.0050	1	11/01/2018 16:58
tert-Butyl benzene	ND	0.0050	1	11/01/2018 16:58
Carbon Disulfide	ND	0.0050	1	11/01/2018 16:58
Carbon Tetrachloride	ND	0.0050	1	11/01/2018 16:58
Chlorobenzene	ND	0.0050	1	11/01/2018 16:58
Chloroethane	ND	0.0050	1	11/01/2018 16:58
Chloroform	ND	0.0050	1	11/01/2018 16:58
Chloromethane	ND	0.0050	1	11/01/2018 16:58
2-Chlorotoluene	ND	0.0050	1	11/01/2018 16:58
4-Chlorotoluene	ND	0.0050	1	11/01/2018 16:58
Dibromochloromethane	ND	0.0050	1	11/01/2018 16:58
1,2-Dibromo-3-chloropropane	ND	0.00025	1	11/01/2018 16:58
1,2-Dibromoethane (EDB)	ND	0.00010	1	11/01/2018 16:58
Dibromomethane	ND	0.0050	1	11/01/2018 16:58
1,2-Dichlorobenzene	ND	0.0050	1	11/01/2018 16:58
1,3-Dichlorobenzene	ND	0.0050	1	11/01/2018 16:58
1,4-Dichlorobenzene	ND	0.0050	1	11/01/2018 16:58
Dichlorodifluoromethane	ND	0.0050	1	11/01/2018 16:58
1,1-Dichloroethane	ND	0.0050	1	11/01/2018 16:58
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	11/01/2018 16:58
1,1-Dichloroethene	ND	0.00025	1	11/01/2018 16:58
cis-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 16:58
trans-1,2-Dichloroethene	ND	0.0050	1	11/01/2018 16:58
1,2-Dichloropropane	ND	0.0050	1	11/01/2018 16:58
1,3-Dichloropropane	ND	0.0050	1	11/01/2018 16:58
2,2-Dichloropropane	ND	0.0050	1	11/01/2018 16:58

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	1810E58-027A	Soil	10/26/2018 08:55	GC38 11011815.D	167509

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	11/01/2018 16:58
cis-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 16:58
trans-1,3-Dichloropropene	ND	0.0050	1	11/01/2018 16:58
Diisopropyl ether (DIPE)	ND	0.0050	1	11/01/2018 16:58
Ethylbenzene	ND	0.0050	1	11/01/2018 16:58
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	11/01/2018 16:58
Freon 113	ND	0.0050	1	11/01/2018 16:58
Hexachlorobutadiene	ND	0.0050	1	11/01/2018 16:58
Hexachloroethane	ND	0.0050	1	11/01/2018 16:58
2-Hexanone	ND	0.0050	1	11/01/2018 16:58
Isopropylbenzene	ND	0.0050	1	11/01/2018 16:58
4-Isopropyl toluene	ND	0.0050	1	11/01/2018 16:58
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	11/01/2018 16:58
Methylene chloride	ND	0.010	1	11/01/2018 16:58
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	11/01/2018 16:58
Naphthalene	ND	0.0050	1	11/01/2018 16:58
n-Propyl benzene	ND	0.0050	1	11/01/2018 16:58
Styrene	ND	0.0050	1	11/01/2018 16:58
1,1,1,2-Tetrachloroethane	ND	0.0050	1	11/01/2018 16:58
1,1,2,2-Tetrachloroethane	ND	0.00025	1	11/01/2018 16:58
Tetrachloroethene	ND	0.00025	1	11/01/2018 16:58
Toluene	ND	0.0050	1	11/01/2018 16:58
1,2,3-Trichlorobenzene	ND	0.0050	1	11/01/2018 16:58
1,2,4-Trichlorobenzene	ND	0.0050	1	11/01/2018 16:58
1,1,1-Trichloroethane	ND	0.0050	1	11/01/2018 16:58
1,1,2-Trichloroethane	ND	0.0050	1	11/01/2018 16:58
Trichloroethene	ND	0.0050	1	11/01/2018 16:58
Trichlorofluoromethane	ND	0.0050	1	11/01/2018 16:58
1,2,3-Trichloropropane	ND	0.00025	1	11/01/2018 16:58
1,2,4-Trimethylbenzene	ND	0.0050	1	11/01/2018 16:58
1,3,5-Trimethylbenzene	ND	0.0050	1	11/01/2018 16:58
Vinyl Chloride	ND	0.00025	1	11/01/2018 16:58
m,p-Xylene	ND	0.0050	1	11/01/2018 16:58
o-Xylene	ND	0.0050	1	11/01/2018 16:58
Xylenes, Total	ND	0.0050	1	11/01/2018 16:58

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	**1810E58-027A**	**Soil**	**10/26/2018 08:55**	**GC38 11011815.D**	**167509**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	105	82-136		11/01/2018 16:58
Toluene-d8	118	92-139		11/01/2018 16:58
4-BFB	120	82-135		11/01/2018 16:58
Benzene-d6	72	55-122		11/01/2018 16:58
Ethylbenzene-d10	94	58-141		11/01/2018 16:58
1,2-DCB-d4	67	51-107		11/01/2018 16:58

Analyst(s): KF

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	1810E58-030A	Soil	10/26/2018 09:10	GC38 10301817.D	167509

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	10/30/2018 18:10
tert-Amyl methyl ether (TAME)	ND	0.0050	1	10/30/2018 18:10
Benzene	ND	0.0050	1	10/30/2018 18:10
Bromobenzene	ND	0.0050	1	10/30/2018 18:10
Bromochloromethane	ND	0.0050	1	10/30/2018 18:10
Bromodichloromethane	ND	0.0010	1	10/30/2018 18:10
Bromoform	ND	0.0050	1	10/30/2018 18:10
Bromomethane	ND	0.0050	1	10/30/2018 18:10
2-Butanone (MEK)	ND	0.020	1	10/30/2018 18:10
t-Butyl alcohol (TBA)	ND	0.050	1	10/30/2018 18:10
n-Butyl benzene	ND	0.0050	1	10/30/2018 18:10
sec-Butyl benzene	ND	0.0050	1	10/30/2018 18:10
tert-Butyl benzene	ND	0.0050	1	10/30/2018 18:10
Carbon Disulfide	ND	0.0050	1	10/30/2018 18:10
Carbon Tetrachloride	ND	0.0050	1	10/30/2018 18:10
Chlorobenzene	ND	0.0050	1	10/30/2018 18:10
Chloroethane	ND	0.0050	1	10/30/2018 18:10
Chloroform	ND	0.0050	1	10/30/2018 18:10
Chloromethane	ND	0.0050	1	10/30/2018 18:10
2-Chlorotoluene	ND	0.0050	1	10/30/2018 18:10
4-Chlorotoluene	ND	0.0050	1	10/30/2018 18:10
Dibromochloromethane	ND	0.0050	1	10/30/2018 18:10
1,2-Dibromo-3-chloropropane	ND	0.00025	1	10/30/2018 18:10
1,2-Dibromoethane (EDB)	ND	0.00010	1	10/30/2018 18:10
Dibromomethane	ND	0.0050	1	10/30/2018 18:10
1,2-Dichlorobenzene	ND	0.0050	1	10/30/2018 18:10
1,3-Dichlorobenzene	ND	0.0050	1	10/30/2018 18:10
1,4-Dichlorobenzene	ND	0.0050	1	10/30/2018 18:10
Dichlorodifluoromethane	ND	0.0050	1	10/30/2018 18:10
1,1-Dichloroethane	ND	0.0050	1	10/30/2018 18:10
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	10/30/2018 18:10
1,1-Dichloroethene	ND	0.00025	1	10/30/2018 18:10
cis-1,2-Dichloroethene	ND	0.0050	1	10/30/2018 18:10
trans-1,2-Dichloroethene	ND	0.0050	1	10/30/2018 18:10
1,2-Dichloropropane	ND	0.0050	1	10/30/2018 18:10
1,3-Dichloropropane	ND	0.0050	1	10/30/2018 18:10
2,2-Dichloropropane	ND	0.0050	1	10/30/2018 18:10

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	1810E58-030A	Soil	10/26/2018 09:10	GC38 10301817.D	167509

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	10/30/2018 18:10
cis-1,3-Dichloropropene	ND	0.0050	1	10/30/2018 18:10
trans-1,3-Dichloropropene	ND	0.0050	1	10/30/2018 18:10
Diisopropyl ether (DIPE)	ND	0.0050	1	10/30/2018 18:10
Ethylbenzene	ND	0.0050	1	10/30/2018 18:10
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	10/30/2018 18:10
Freon 113	ND	0.0050	1	10/30/2018 18:10
Hexachlorobutadiene	ND	0.0050	1	10/30/2018 18:10
Hexachloroethane	ND	0.0050	1	10/30/2018 18:10
2-Hexanone	ND	0.0050	1	10/30/2018 18:10
Isopropylbenzene	ND	0.0050	1	10/30/2018 18:10
4-Isopropyl toluene	ND	0.0050	1	10/30/2018 18:10
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	10/30/2018 18:10
Methylene chloride	ND	0.010	1	10/30/2018 18:10
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	10/30/2018 18:10
Naphthalene	ND	0.0050	1	10/30/2018 18:10
n-Propyl benzene	ND	0.0050	1	10/30/2018 18:10
Styrene	ND	0.0050	1	10/30/2018 18:10
1,1,1,2-Tetrachloroethane	ND	0.0050	1	10/30/2018 18:10
1,1,2,2-Tetrachloroethane	ND	0.00025	1	10/30/2018 18:10
Tetrachloroethene	ND	0.00025	1	10/30/2018 18:10
Toluene	ND	0.0050	1	10/30/2018 18:10
1,2,3-Trichlorobenzene	ND	0.0050	1	10/30/2018 18:10
1,2,4-Trichlorobenzene	ND	0.0050	1	10/30/2018 18:10
1,1,1-Trichloroethane	ND	0.0050	1	10/30/2018 18:10
1,1,2-Trichloroethane	ND	0.0050	1	10/30/2018 18:10
Trichloroethene	ND	0.0050	1	10/30/2018 18:10
Trichlorofluoromethane	ND	0.0050	1	10/30/2018 18:10
1,2,3-Trichloropropane	ND	0.00025	1	10/30/2018 18:10
1,2,4-Trimethylbenzene	ND	0.0050	1	10/30/2018 18:10
1,3,5-Trimethylbenzene	ND	0.0050	1	10/30/2018 18:10
Vinyl Chloride	ND	0.00025	1	10/30/2018 18:10
m,p-Xylene	ND	0.0050	1	10/30/2018 18:10
o-Xylene	ND	0.0050	1	10/30/2018 18:10
Xylenes, Total	ND	0.0050	1	10/30/2018 18:10

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18	**Analytical Method:**	SW8260B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	1810E58-030A	Soil	10/26/2018 09:10	GC38 10301817.D	167509

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	102	82-136		10/30/2018 18:10
Toluene-d8	117	92-139		10/30/2018 18:10
4-BFB	116	82-135		10/30/2018 18:10
Benzene-d6	59	55-122		10/30/2018 18:10
Ethylbenzene-d10	78	58-141		10/30/2018 18:10
1,2-DCB-d4	59	51-107		10/30/2018 18:10

Analyst(s): AK

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Analytical Report

Client: Langan
Date Received: 10/29/18 16:30
Date Prepared: 10/30/18
Project: 770657001; 425 S. Winchester blvd

WorkOrder: 1810E58
Extraction Method: SW3550B/3640A
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	1810E58-003A	Soil	10/26/2018 11:28	GC21 10311821.D	167522

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	10/31/2018 18:30
Acenaphthylene	ND	0.0013	1	10/31/2018 18:30
Acetochlor	ND	0.25	1	10/31/2018 18:30
Anthracene	ND	0.0013	1	10/31/2018 18:30
Benzidine	ND	1.2	1	10/31/2018 18:30
Benzo (a) anthracene	ND	0.0050	1	10/31/2018 18:30
Benzo (a) pyrene	ND	0.0025	1	10/31/2018 18:30
Benzo (b) fluoranthene	ND	0.0013	1	10/31/2018 18:30
Benzo (g,h,i) perylene	ND	0.0025	1	10/31/2018 18:30
Benzo (k) fluoranthene	ND	0.0013	1	10/31/2018 18:30
Benzyl Alcohol	ND	1.2	1	10/31/2018 18:30
1,1-Biphenyl	ND	0.013	1	10/31/2018 18:30
Bis (2-chloroethoxy) Methane	ND	0.25	1	10/31/2018 18:30
Bis (2-chloroethyl) Ether	ND	0.0025	1	10/31/2018 18:30
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	10/31/2018 18:30
Bis (2-ethylhexyl) Adipate	ND	0.50	1	10/31/2018 18:30
Bis (2-ethylhexyl) Phthalate	ND	0.0050	1	10/31/2018 18:30
4-Bromophenyl Phenyl Ether	ND	0.25	1	10/31/2018 18:30
Butylbenzyl Phthalate	ND	0.025	1	10/31/2018 18:30
4-Chloroaniline	ND	0.0025	1	10/31/2018 18:30
4-Chloro-3-methylphenol	ND	0.25	1	10/31/2018 18:30
2-Chloronaphthalene	ND	0.25	1	10/31/2018 18:30
2-Chlorophenol	ND	0.0050	1	10/31/2018 18:30
4-Chlorophenyl Phenyl Ether	ND	0.25	1	10/31/2018 18:30
Chrysene	ND	0.0025	1	10/31/2018 18:30
Dibenzo (a,h) anthracene	ND	0.0025	1	10/31/2018 18:30
Dibenzofuran	ND	0.25	1	10/31/2018 18:30
Di-n-butyl Phthalate	**0.0029**	0.0025	1	10/31/2018 18:30
1,2-Dichlorobenzene	ND	0.25	1	10/31/2018 18:30
1,3-Dichlorobenzene	ND	0.25	1	10/31/2018 18:30
1,4-Dichlorobenzene	ND	0.25	1	10/31/2018 18:30
3,3-Dichlorobenzidine	ND	0.0025	1	10/31/2018 18:30
2,4-Dichlorophenol	ND	0.013	1	10/31/2018 18:30
Diethyl Phthalate	ND	0.0050	1	10/31/2018 18:30
2,4-Dimethylphenol	ND	0.25	1	10/31/2018 18:30
Dimethyl Phthalate	ND	0.0025	1	10/31/2018 18:30
4,6-Dinitro-2-methylphenol	ND	1.2	1	10/31/2018 18:30

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	1810E58-003A	Soil	10/26/2018 11:28	GC21 10311821.D	167522

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.13	1	10/31/2018 18:30
2,4-Dinitrotoluene	ND	0.0063	1	10/31/2018 18:30
2,6-Dinitrotoluene	ND	0.0025	1	10/31/2018 18:30
Di-n-octyl Phthalate	ND	0.0050	1	10/31/2018 18:30
1,2-Diphenylhydrazine	ND	0.25	1	10/31/2018 18:30
Fluoranthene	ND	0.0013	1	10/31/2018 18:30
Fluorene	ND	0.0025	1	10/31/2018 18:30
Hexachlorobenzene	ND	0.0013	1	10/31/2018 18:30
Hexachlorobutadiene	ND	0.0025	1	10/31/2018 18:30
Hexachlorocyclopentadiene	ND	2.0	1	10/31/2018 18:30
Hexachloroethane	ND	0.0025	1	10/31/2018 18:30
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	10/31/2018 18:30
Isophorone	ND	0.25	1	10/31/2018 18:30
2-Methylnaphthalene	ND	0.0025	1	10/31/2018 18:30
2-Methylphenol (o-Cresol)	ND	0.50	1	10/31/2018 18:30
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	10/31/2018 18:30
Naphthalene	ND	0.0013	1	10/31/2018 18:30
2-Nitroaniline	ND	1.2	1	10/31/2018 18:30
3-Nitroaniline	ND	1.2	1	10/31/2018 18:30
4-Nitroaniline	ND	1.2	1	10/31/2018 18:30
Nitrobenzene	ND	0.25	1	10/31/2018 18:30
2-Nitrophenol	ND	1.2	1	10/31/2018 18:30
4-Nitrophenol	ND	1.2	1	10/31/2018 18:30
N-Nitrosodiphenylamine	ND	0.25	1	10/31/2018 18:30
N-Nitrosodi-n-propylamine	ND	0.25	1	10/31/2018 18:30
Pentachlorophenol	ND	0.031	1	10/31/2018 18:30
Phenanthrene	ND	0.0050	1	10/31/2018 18:30
Phenol	ND	0.0050	1	10/31/2018 18:30
Pyrene	ND	0.0025	1	10/31/2018 18:30
Pyridine	ND	0.25	1	10/31/2018 18:30
1,2,4-Trichlorobenzene	ND	0.25	1	10/31/2018 18:30
2,4,5-Trichlorophenol	ND	0.0025	1	10/31/2018 18:30
2,4,6-Trichlorophenol	ND	0.013	1	10/31/2018 18:30

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	1810E58-003A	Soil	10/26/2018 11:28	GC21 10311821.D	167522

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	91	30-130		10/31/2018 18:30
Phenol-d5	95	30-130		10/31/2018 18:30
Nitrobenzene-d5	82	30-130		10/31/2018 18:30
2-Fluorobiphenyl	78	30-130		10/31/2018 18:30
2,4,6-Tribromophenol	65	16-130		10/31/2018 18:30
4-Terphenyl-d14	88	30-130		10/31/2018 18:30

Analyst(s): REB

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	1810E58-007A	Soil	10/26/2018 11:46	GC21 10311822.D	167522

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	10/31/2018 18:57
Acenaphthylene	ND	0.0013	1	10/31/2018 18:57
Acetochlor	ND	0.25	1	10/31/2018 18:57
Anthracene	ND	0.0013	1	10/31/2018 18:57
Benzidine	ND	1.2	1	10/31/2018 18:57
Benzo (a) anthracene	ND	0.0050	1	10/31/2018 18:57
Benzo (a) pyrene	ND	0.0025	1	10/31/2018 18:57
Benzo (b) fluoranthene	ND	0.0013	1	10/31/2018 18:57
Benzo (g,h,i) perylene	ND	0.0025	1	10/31/2018 18:57
Benzo (k) fluoranthene	ND	0.0013	1	10/31/2018 18:57
Benzyl Alcohol	ND	1.2	1	10/31/2018 18:57
1,1-Biphenyl	ND	0.013	1	10/31/2018 18:57
Bis (2-chloroethoxy) Methane	ND	0.25	1	10/31/2018 18:57
Bis (2-chloroethyl) Ether	ND	0.0025	1	10/31/2018 18:57
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	10/31/2018 18:57
Bis (2-ethylhexyl) Adipate	ND	0.50	1	10/31/2018 18:57
Bis (2-ethylhexyl) Phthalate	**0.0084**	0.0050	1	10/31/2018 18:57
4-Bromophenyl Phenyl Ether	ND	0.25	1	10/31/2018 18:57
Butylbenzyl Phthalate	ND	0.025	1	10/31/2018 18:57
4-Chloroaniline	ND	0.0025	1	10/31/2018 18:57
4-Chloro-3-methylphenol	ND	0.25	1	10/31/2018 18:57
2-Chloronaphthalene	ND	0.25	1	10/31/2018 18:57
2-Chlorophenol	ND	0.0050	1	10/31/2018 18:57
4-Chlorophenyl Phenyl Ether	ND	0.25	1	10/31/2018 18:57
Chrysene	ND	0.0025	1	10/31/2018 18:57
Dibenzo (a,h) anthracene	ND	0.0025	1	10/31/2018 18:57
Dibenzofuran	ND	0.25	1	10/31/2018 18:57
Di-n-butyl Phthalate	**0.0028**	0.0025	1	10/31/2018 18:57
1,2-Dichlorobenzene	ND	0.25	1	10/31/2018 18:57
1,3-Dichlorobenzene	ND	0.25	1	10/31/2018 18:57
1,4-Dichlorobenzene	ND	0.25	1	10/31/2018 18:57
3,3-Dichlorobenzidine	ND	0.0025	1	10/31/2018 18:57
2,4-Dichlorophenol	ND	0.013	1	10/31/2018 18:57
Diethyl Phthalate	ND	0.0050	1	10/31/2018 18:57
2,4-Dimethylphenol	ND	0.25	1	10/31/2018 18:57
Dimethyl Phthalate	ND	0.0025	1	10/31/2018 18:57
4,6-Dinitro-2-methylphenol	ND	1.2	1	10/31/2018 18:57

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	1810E58-007A	Soil	10/26/2018 11:46	GC21 10311822.D	167522

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.13	1	10/31/2018 18:57
2,4-Dinitrotoluene	ND	0.0063	1	10/31/2018 18:57
2,6-Dinitrotoluene	ND	0.0025	1	10/31/2018 18:57
Di-n-octyl Phthalate	ND	0.0050	1	10/31/2018 18:57
1,2-Diphenylhydrazine	ND	0.25	1	10/31/2018 18:57
Fluoranthene	ND	0.0013	1	10/31/2018 18:57
Fluorene	ND	0.0025	1	10/31/2018 18:57
Hexachlorobenzene	ND	0.0013	1	10/31/2018 18:57
Hexachlorobutadiene	ND	0.0025	1	10/31/2018 18:57
Hexachlorocyclopentadiene	ND	2.0	1	10/31/2018 18:57
Hexachloroethane	ND	0.0025	1	10/31/2018 18:57
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	10/31/2018 18:57
Isophorone	ND	0.25	1	10/31/2018 18:57
2-Methylnaphthalene	ND	0.0025	1	10/31/2018 18:57
2-Methylphenol (o-Cresol)	ND	0.50	1	10/31/2018 18:57
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	10/31/2018 18:57
Naphthalene	ND	0.0013	1	10/31/2018 18:57
2-Nitroaniline	ND	1.2	1	10/31/2018 18:57
3-Nitroaniline	ND	1.2	1	10/31/2018 18:57
4-Nitroaniline	ND	1.2	1	10/31/2018 18:57
Nitrobenzene	ND	0.25	1	10/31/2018 18:57
2-Nitrophenol	ND	1.2	1	10/31/2018 18:57
4-Nitrophenol	ND	1.2	1	10/31/2018 18:57
N-Nitrosodiphenylamine	ND	0.25	1	10/31/2018 18:57
N-Nitrosodi-n-propylamine	ND	0.25	1	10/31/2018 18:57
Pentachlorophenol	ND	0.031	1	10/31/2018 18:57
Phenanthrene	ND	0.0050	1	10/31/2018 18:57
Phenol	ND	0.0050	1	10/31/2018 18:57
Pyrene	ND	0.0025	1	10/31/2018 18:57
Pyridine	ND	0.25	1	10/31/2018 18:57
1,2,4-Trichlorobenzene	ND	0.25	1	10/31/2018 18:57
2,4,5-Trichlorophenol	ND	0.0025	1	10/31/2018 18:57
2,4,6-Trichlorophenol	ND	0.013	1	10/31/2018 18:57

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	1810E58-007A	Soil	10/26/2018 11:46	GC21 10311822.D	167522

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	81	30-130		10/31/2018 18:57
Phenol-d5	88	30-130		10/31/2018 18:57
Nitrobenzene-d5	87	30-130		10/31/2018 18:57
2-Fluorobiphenyl	69	30-130		10/31/2018 18:57
2,4,6-Tribromophenol	58	16-130		10/31/2018 18:57
4-Terphenyl-d14	72	30-130		10/31/2018 18:57

Analyst(s): REB

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	1810E58-016A	Soil	10/26/2018 10:36	GC21 10311823.D	167522

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	10/31/2018 19:24
Acenaphthylene	ND	0.0013	1	10/31/2018 19:24
Acetochlor	ND	0.25	1	10/31/2018 19:24
Anthracene	ND	0.0013	1	10/31/2018 19:24
Benzidine	ND	1.2	1	10/31/2018 19:24
Benzo (a) anthracene	ND	0.0050	1	10/31/2018 19:24
Benzo (a) pyrene	ND	0.0025	1	10/31/2018 19:24
Benzo (b) fluoranthene	ND	0.0013	1	10/31/2018 19:24
Benzo (g,h,i) perylene	ND	0.0025	1	10/31/2018 19:24
Benzo (k) fluoranthene	ND	0.0013	1	10/31/2018 19:24
Benzyl Alcohol	ND	1.2	1	10/31/2018 19:24
1,1-Biphenyl	ND	0.013	1	10/31/2018 19:24
Bis (2-chloroethoxy) Methane	ND	0.25	1	10/31/2018 19:24
Bis (2-chloroethyl) Ether	ND	0.0025	1	10/31/2018 19:24
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	10/31/2018 19:24
Bis (2-ethylhexyl) Adipate	ND	0.50	1	10/31/2018 19:24
Bis (2-ethylhexyl) Phthalate	ND	0.0050	1	10/31/2018 19:24
4-Bromophenyl Phenyl Ether	ND	0.25	1	10/31/2018 19:24
Butylbenzyl Phthalate	ND	0.025	1	10/31/2018 19:24
4-Chloroaniline	ND	0.0025	1	10/31/2018 19:24
4-Chloro-3-methylphenol	ND	0.25	1	10/31/2018 19:24
2-Chloronaphthalene	ND	0.25	1	10/31/2018 19:24
2-Chlorophenol	ND	0.0050	1	10/31/2018 19:24
4-Chlorophenyl Phenyl Ether	ND	0.25	1	10/31/2018 19:24
Chrysene	ND	0.0025	1	10/31/2018 19:24
Dibenzo (a,h) anthracene	ND	0.0025	1	10/31/2018 19:24
Dibenzofuran	ND	0.25	1	10/31/2018 19:24
Di-n-butyl Phthalate	**0.0028**	0.0025	1	10/31/2018 19:24
1,2-Dichlorobenzene	ND	0.25	1	10/31/2018 19:24
1,3-Dichlorobenzene	ND	0.25	1	10/31/2018 19:24
1,4-Dichlorobenzene	ND	0.25	1	10/31/2018 19:24
3,3-Dichlorobenzidine	ND	0.0025	1	10/31/2018 19:24
2,4-Dichlorophenol	ND	0.013	1	10/31/2018 19:24
Diethyl Phthalate	ND	0.0050	1	10/31/2018 19:24
2,4-Dimethylphenol	ND	0.25	1	10/31/2018 19:24
Dimethyl Phthalate	ND	0.0025	1	10/31/2018 19:24
4,6-Dinitro-2-methylphenol	ND	1.2	1	10/31/2018 19:24

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	1810E58-016A	Soil	10/26/2018 10:36	GC21 10311823.D	167522

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.13	1	10/31/2018 19:24
2,4-Dinitrotoluene	ND	0.0063	1	10/31/2018 19:24
2,6-Dinitrotoluene	ND	0.0025	1	10/31/2018 19:24
Di-n-octyl Phthalate	ND	0.0050	1	10/31/2018 19:24
1,2-Diphenylhydrazine	ND	0.25	1	10/31/2018 19:24
Fluoranthene	ND	0.0013	1	10/31/2018 19:24
Fluorene	ND	0.0025	1	10/31/2018 19:24
Hexachlorobenzene	ND	0.0013	1	10/31/2018 19:24
Hexachlorobutadiene	ND	0.0025	1	10/31/2018 19:24
Hexachlorocyclopentadiene	ND	2.0	1	10/31/2018 19:24
Hexachloroethane	ND	0.0025	1	10/31/2018 19:24
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	10/31/2018 19:24
Isophorone	ND	0.25	1	10/31/2018 19:24
2-Methylnaphthalene	ND	0.0025	1	10/31/2018 19:24
2-Methylphenol (o-Cresol)	ND	0.50	1	10/31/2018 19:24
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	10/31/2018 19:24
Naphthalene	ND	0.0013	1	10/31/2018 19:24
2-Nitroaniline	ND	1.2	1	10/31/2018 19:24
3-Nitroaniline	ND	1.2	1	10/31/2018 19:24
4-Nitroaniline	ND	1.2	1	10/31/2018 19:24
Nitrobenzene	ND	0.25	1	10/31/2018 19:24
2-Nitrophenol	ND	1.2	1	10/31/2018 19:24
4-Nitrophenol	ND	1.2	1	10/31/2018 19:24
N-Nitrosodiphenylamine	ND	0.25	1	10/31/2018 19:24
N-Nitrosodi-n-propylamine	ND	0.25	1	10/31/2018 19:24
Pentachlorophenol	ND	0.031	1	10/31/2018 19:24
Phenanthrene	ND	0.0050	1	10/31/2018 19:24
Phenol	ND	0.0050	1	10/31/2018 19:24
Pyrene	ND	0.0025	1	10/31/2018 19:24
Pyridine	ND	0.25	1	10/31/2018 19:24
1,2,4-Trichlorobenzene	ND	0.25	1	10/31/2018 19:24
2,4,5-Trichlorophenol	ND	0.0025	1	10/31/2018 19:24
2,4,6-Trichlorophenol	ND	0.013	1	10/31/2018 19:24

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	1810E58-016A	Soil	10/26/2018 10:36	GC21 10311823.D	167522

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	77	30-130		10/31/2018 19:24
Phenol-d5	93	30-130		10/31/2018 19:24
Nitrobenzene-d5	97	30-130		10/31/2018 19:24
2-Fluorobiphenyl	72	30-130		10/31/2018 19:24
2,4,6-Tribromophenol	66	16-130		10/31/2018 19:24
4-Terphenyl-d14	83	30-130		10/31/2018 19:24

Analyst(s): REB

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	1810E58-017A	Soil	10/26/2018 10:39	GC21 10311824.D	167522

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	10/31/2018 19:51
Acenaphthylene	ND	0.0013	1	10/31/2018 19:51
Acetochlor	ND	0.25	1	10/31/2018 19:51
Anthracene	ND	0.0013	1	10/31/2018 19:51
Benzidine	ND	1.2	1	10/31/2018 19:51
Benzo (a) anthracene	ND	0.0050	1	10/31/2018 19:51
Benzo (a) pyrene	ND	0.0025	1	10/31/2018 19:51
Benzo (b) fluoranthene	ND	0.0013	1	10/31/2018 19:51
Benzo (g,h,i) perylene	ND	0.0025	1	10/31/2018 19:51
Benzo (k) fluoranthene	ND	0.0013	1	10/31/2018 19:51
Benzyl Alcohol	ND	1.2	1	10/31/2018 19:51
1,1-Biphenyl	ND	0.013	1	10/31/2018 19:51
Bis (2-chloroethoxy) Methane	ND	0.25	1	10/31/2018 19:51
Bis (2-chloroethyl) Ether	ND	0.0025	1	10/31/2018 19:51
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	10/31/2018 19:51
Bis (2-ethylhexyl) Adipate	ND	0.50	1	10/31/2018 19:51
Bis (2-ethylhexyl) Phthalate	ND	0.0050	1	10/31/2018 19:51
4-Bromophenyl Phenyl Ether	ND	0.25	1	10/31/2018 19:51
Butylbenzyl Phthalate	ND	0.025	1	10/31/2018 19:51
4-Chloroaniline	ND	0.0025	1	10/31/2018 19:51
4-Chloro-3-methylphenol	ND	0.25	1	10/31/2018 19:51
2-Chloronaphthalene	ND	0.25	1	10/31/2018 19:51
2-Chlorophenol	ND	0.0050	1	10/31/2018 19:51
4-Chlorophenyl Phenyl Ether	ND	0.25	1	10/31/2018 19:51
Chrysene	ND	0.0025	1	10/31/2018 19:51
Dibenzo (a,h) anthracene	ND	0.0025	1	10/31/2018 19:51
Dibenzofuran	ND	0.25	1	10/31/2018 19:51
Di-n-butyl Phthalate	ND	0.0025	1	10/31/2018 19:51
1,2-Dichlorobenzene	ND	0.25	1	10/31/2018 19:51
1,3-Dichlorobenzene	ND	0.25	1	10/31/2018 19:51
1,4-Dichlorobenzene	ND	0.25	1	10/31/2018 19:51
3,3-Dichlorobenzidine	ND	0.0025	1	10/31/2018 19:51
2,4-Dichlorophenol	ND	0.013	1	10/31/2018 19:51
Diethyl Phthalate	ND	0.0050	1	10/31/2018 19:51
2,4-Dimethylphenol	ND	0.25	1	10/31/2018 19:51
Dimethyl Phthalate	ND	0.0025	1	10/31/2018 19:51
4,6-Dinitro-2-methylphenol	ND	1.2	1	10/31/2018 19:51

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Analytical Report

Client: Langan
Date Received: 10/29/18 16:30
Date Prepared: 10/30/18
Project: 770657001; 425 S. Winchester blvd

WorkOrder: 1810E58
Extraction Method: SW3550B/3640A
Analytical Method: SW8270C
Unit: mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	1810E58-017A	Soil	10/26/2018 10:39	GC21 10311824.D	167522

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.13	1	10/31/2018 19:51
2,4-Dinitrotoluene	ND	0.0063	1	10/31/2018 19:51
2,6-Dinitrotoluene	ND	0.0025	1	10/31/2018 19:51
Di-n-octyl Phthalate	ND	0.0050	1	10/31/2018 19:51
1,2-Diphenylhydrazine	ND	0.25	1	10/31/2018 19:51
Fluoranthene	ND	0.0013	1	10/31/2018 19:51
Fluorene	ND	0.0025	1	10/31/2018 19:51
Hexachlorobenzene	ND	0.0013	1	10/31/2018 19:51
Hexachlorobutadiene	ND	0.0025	1	10/31/2018 19:51
Hexachlorocyclopentadiene	ND	2.0	1	10/31/2018 19:51
Hexachloroethane	ND	0.0025	1	10/31/2018 19:51
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	10/31/2018 19:51
Isophorone	ND	0.25	1	10/31/2018 19:51
2-Methylnaphthalene	ND	0.0025	1	10/31/2018 19:51
2-Methylphenol (o-Cresol)	ND	0.50	1	10/31/2018 19:51
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	10/31/2018 19:51
Naphthalene	ND	0.0013	1	10/31/2018 19:51
2-Nitroaniline	ND	1.2	1	10/31/2018 19:51
3-Nitroaniline	ND	1.2	1	10/31/2018 19:51
4-Nitroaniline	ND	1.2	1	10/31/2018 19:51
Nitrobenzene	ND	0.25	1	10/31/2018 19:51
2-Nitrophenol	ND	1.2	1	10/31/2018 19:51
4-Nitrophenol	ND	1.2	1	10/31/2018 19:51
N-Nitrosodiphenylamine	ND	0.25	1	10/31/2018 19:51
N-Nitrosodi-n-propylamine	ND	0.25	1	10/31/2018 19:51
Pentachlorophenol	ND	0.031	1	10/31/2018 19:51
Phenanthrene	ND	0.0050	1	10/31/2018 19:51
Phenol	ND	0.0050	1	10/31/2018 19:51
Pyrene	ND	0.0025	1	10/31/2018 19:51
Pyridine	ND	0.25	1	10/31/2018 19:51
1,2,4-Trichlorobenzene	ND	0.25	1	10/31/2018 19:51
2,4,5-Trichlorophenol	ND	0.0025	1	10/31/2018 19:51
2,4,6-Trichlorophenol	ND	0.013	1	10/31/2018 19:51

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	1810E58-017A	Soil	10/26/2018 10:39	GC21 10311824.D	167522

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	55	30-130		10/31/2018 19:51
Phenol-d5	75	30-130		10/31/2018 19:51
Nitrobenzene-d5	68	30-130		10/31/2018 19:51
2-Fluorobiphenyl	64	30-130		10/31/2018 19:51
2,4,6-Tribromophenol	51	16-130		10/31/2018 19:51
4-Terphenyl-d14	69	30-130		10/31/2018 19:51

Analyst(s): REB

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	1810E58-027A	Soil	10/26/2018 08:55	GC21 10311825.D	167522

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	10/31/2018 20:17
Acenaphthylene	ND	0.0013	1	10/31/2018 20:17
Acetochlor	ND	0.25	1	10/31/2018 20:17
Anthracene	ND	0.0013	1	10/31/2018 20:17
Benzidine	ND	1.2	1	10/31/2018 20:17
Benzo (a) anthracene	ND	0.0050	1	10/31/2018 20:17
Benzo (a) pyrene	ND	0.0025	1	10/31/2018 20:17
Benzo (b) fluoranthene	ND	0.0013	1	10/31/2018 20:17
Benzo (g,h,i) perylene	ND	0.0025	1	10/31/2018 20:17
Benzo (k) fluoranthene	ND	0.0013	1	10/31/2018 20:17
Benzyl Alcohol	ND	1.2	1	10/31/2018 20:17
1,1-Biphenyl	ND	0.013	1	10/31/2018 20:17
Bis (2-chloroethoxy) Methane	ND	0.25	1	10/31/2018 20:17
Bis (2-chloroethyl) Ether	ND	0.0025	1	10/31/2018 20:17
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	10/31/2018 20:17
Bis (2-ethylhexyl) Adipate	ND	0.50	1	10/31/2018 20:17
Bis (2-ethylhexyl) Phthalate	ND	0.0050	1	10/31/2018 20:17
4-Bromophenyl Phenyl Ether	ND	0.25	1	10/31/2018 20:17
Butylbenzyl Phthalate	ND	0.025	1	10/31/2018 20:17
4-Chloroaniline	ND	0.0025	1	10/31/2018 20:17
4-Chloro-3-methylphenol	ND	0.25	1	10/31/2018 20:17
2-Chloronaphthalene	ND	0.25	1	10/31/2018 20:17
2-Chlorophenol	ND	0.0050	1	10/31/2018 20:17
4-Chlorophenyl Phenyl Ether	ND	0.25	1	10/31/2018 20:17
Chrysene	ND	0.0025	1	10/31/2018 20:17
Dibenzo (a,h) anthracene	ND	0.0025	1	10/31/2018 20:17
Dibenzofuran	ND	0.25	1	10/31/2018 20:17
Di-n-butyl Phthalate	ND	0.0025	1	10/31/2018 20:17
1,2-Dichlorobenzene	ND	0.25	1	10/31/2018 20:17
1,3-Dichlorobenzene	ND	0.25	1	10/31/2018 20:17
1,4-Dichlorobenzene	ND	0.25	1	10/31/2018 20:17
3,3-Dichlorobenzidine	ND	0.0025	1	10/31/2018 20:17
2,4-Dichlorophenol	ND	0.013	1	10/31/2018 20:17
Diethyl Phthalate	**0.012**	0.0050	1	10/31/2018 20:17
2,4-Dimethylphenol	ND	0.25	1	10/31/2018 20:17
Dimethyl Phthalate	ND	0.0025	1	10/31/2018 20:17
4,6-Dinitro-2-methylphenol	ND	1.2	1	10/31/2018 20:17

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	1810E58-027A	Soil	10/26/2018 08:55	GC21 10311825.D	167522

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.13	1	10/31/2018 20:17
2,4-Dinitrotoluene	ND	0.0063	1	10/31/2018 20:17
2,6-Dinitrotoluene	ND	0.0025	1	10/31/2018 20:17
Di-n-octyl Phthalate	ND	0.0050	1	10/31/2018 20:17
1,2-Diphenylhydrazine	ND	0.25	1	10/31/2018 20:17
Fluoranthene	ND	0.0013	1	10/31/2018 20:17
Fluorene	ND	0.0025	1	10/31/2018 20:17
Hexachlorobenzene	ND	0.0013	1	10/31/2018 20:17
Hexachlorobutadiene	ND	0.0025	1	10/31/2018 20:17
Hexachlorocyclopentadiene	ND	2.0	1	10/31/2018 20:17
Hexachloroethane	ND	0.0025	1	10/31/2018 20:17
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	10/31/2018 20:17
Isophorone	ND	0.25	1	10/31/2018 20:17
2-Methylnaphthalene	**0.0051**	0.0025	1	10/31/2018 20:17
2-Methylphenol (o-Cresol)	ND	0.50	1	10/31/2018 20:17
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	10/31/2018 20:17
Naphthalene	**0.0029**	0.0013	1	10/31/2018 20:17
2-Nitroaniline	ND	1.2	1	10/31/2018 20:17
3-Nitroaniline	ND	1.2	1	10/31/2018 20:17
4-Nitroaniline	ND	1.2	1	10/31/2018 20:17
Nitrobenzene	ND	0.25	1	10/31/2018 20:17
2-Nitrophenol	ND	1.2	1	10/31/2018 20:17
4-Nitrophenol	ND	1.2	1	10/31/2018 20:17
N-Nitrosodiphenylamine	ND	0.25	1	10/31/2018 20:17
N-Nitrosodi-n-propylamine	ND	0.25	1	10/31/2018 20:17
Pentachlorophenol	ND	0.031	1	10/31/2018 20:17
Phenanthrene	**0.0086**	0.0050	1	10/31/2018 20:17
Phenol	ND	0.0050	1	10/31/2018 20:17
Pyrene	ND	0.0025	1	10/31/2018 20:17
Pyridine	ND	0.25	1	10/31/2018 20:17
1,2,4-Trichlorobenzene	ND	0.25	1	10/31/2018 20:17
2,4,5-Trichlorophenol	ND	0.0025	1	10/31/2018 20:17
2,4,6-Trichlorophenol	ND	0.013	1	10/31/2018 20:17

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	1810E58-027A	Soil	10/26/2018 08:55	GC21 10311825.D	167522

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	94	30-130		10/31/2018 20:17
Phenol-d5	95	30-130		10/31/2018 20:17
Nitrobenzene-d5	73	30-130		10/31/2018 20:17
2-Fluorobiphenyl	65	30-130		10/31/2018 20:17
2,4,6-Tribromophenol	48	16-130		10/31/2018 20:17
4-Terphenyl-d14	83	30-130		10/31/2018 20:17

Analyst(s): REB

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	1810E58-030A	Soil	10/26/2018 09:10	GC21 11011828.D	167522

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	11/01/2018 21:39
Acenaphthylene	ND	0.0013	1	11/01/2018 21:39
Acetochlor	ND	0.25	1	11/01/2018 21:39
Anthracene	ND	0.0013	1	11/01/2018 21:39
Benzidine	ND	1.2	1	11/01/2018 21:39
Benzo (a) anthracene	ND	0.0050	1	11/01/2018 21:39
Benzo (a) pyrene	ND	0.0025	1	11/01/2018 21:39
Benzo (b) fluoranthene	ND	0.0013	1	11/01/2018 21:39
Benzo (g,h,i) perylene	ND	0.0025	1	11/01/2018 21:39
Benzo (k) fluoranthene	ND	0.0013	1	11/01/2018 21:39
Benzyl Alcohol	ND	1.2	1	11/01/2018 21:39
1,1-Biphenyl	ND	0.013	1	11/01/2018 21:39
Bis (2-chloroethoxy) Methane	ND	0.25	1	11/01/2018 21:39
Bis (2-chloroethyl) Ether	ND	0.0025	1	11/01/2018 21:39
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	11/01/2018 21:39
Bis (2-ethylhexyl) Adipate	ND	0.50	1	11/01/2018 21:39
Bis (2-ethylhexyl) Phthalate	ND	0.0050	1	11/01/2018 21:39
4-Bromophenyl Phenyl Ether	ND	0.25	1	11/01/2018 21:39
Butylbenzyl Phthalate	ND	0.025	1	11/01/2018 21:39
4-Chloroaniline	ND	0.0025	1	11/01/2018 21:39
4-Chloro-3-methylphenol	ND	0.25	1	11/01/2018 21:39
2-Chloronaphthalene	ND	0.25	1	11/01/2018 21:39
2-Chlorophenol	ND	0.0050	1	11/01/2018 21:39
4-Chlorophenyl Phenyl Ether	ND	0.25	1	11/01/2018 21:39
Chrysene	ND	0.0025	1	11/01/2018 21:39
Dibenzo (a,h) anthracene	ND	0.0025	1	11/01/2018 21:39
Dibenzofuran	ND	0.25	1	11/01/2018 21:39
Di-n-butyl Phthalate	ND	0.0025	1	11/01/2018 21:39
1,2-Dichlorobenzene	ND	0.25	1	11/01/2018 21:39
1,3-Dichlorobenzene	ND	0.25	1	11/01/2018 21:39
1,4-Dichlorobenzene	ND	0.25	1	11/01/2018 21:39
3,3-Dichlorobenzidine	ND	0.0025	1	11/01/2018 21:39
2,4-Dichlorophenol	ND	0.013	1	11/01/2018 21:39
Diethyl Phthalate	ND	0.0050	1	11/01/2018 21:39
2,4-Dimethylphenol	ND	0.25	1	11/01/2018 21:39
Dimethyl Phthalate	ND	0.0025	1	11/01/2018 21:39
4,6-Dinitro-2-methylphenol	ND	1.2	1	11/01/2018 21:39

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	1810E58-030A	Soil	10/26/2018 09:10	GC21 11011828.D	167522

Analytes	Result	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.13	1	11/01/2018 21:39
2,4-Dinitrotoluene	ND	0.0063	1	11/01/2018 21:39
2,6-Dinitrotoluene	ND	0.0025	1	11/01/2018 21:39
Di-n-octyl Phthalate	ND	0.0050	1	11/01/2018 21:39
1,2-Diphenylhydrazine	ND	0.25	1	11/01/2018 21:39
Fluoranthene	ND	0.0013	1	11/01/2018 21:39
Fluorene	ND	0.0025	1	11/01/2018 21:39
Hexachlorobenzene	ND	0.0013	1	11/01/2018 21:39
Hexachlorobutadiene	ND	0.0025	1	11/01/2018 21:39
Hexachlorocyclopentadiene	ND	2.0	1	11/01/2018 21:39
Hexachloroethane	ND	0.0025	1	11/01/2018 21:39
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	11/01/2018 21:39
Isophorone	ND	0.25	1	11/01/2018 21:39
2-Methylnaphthalene	ND	0.0025	1	11/01/2018 21:39
2-Methylphenol (o-Cresol)	ND	0.50	1	11/01/2018 21:39
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	11/01/2018 21:39
Naphthalene	ND	0.0013	1	11/01/2018 21:39
2-Nitroaniline	ND	1.2	1	11/01/2018 21:39
3-Nitroaniline	ND	1.2	1	11/01/2018 21:39
4-Nitroaniline	ND	1.2	1	11/01/2018 21:39
Nitrobenzene	ND	0.25	1	11/01/2018 21:39
2-Nitrophenol	ND	1.2	1	11/01/2018 21:39
4-Nitrophenol	ND	1.2	1	11/01/2018 21:39
N-Nitrosodiphenylamine	ND	0.25	1	11/01/2018 21:39
N-Nitrosodi-n-propylamine	ND	0.25	1	11/01/2018 21:39
Pentachlorophenol	ND	0.031	1	11/01/2018 21:39
Phenanthrene	ND	0.0050	1	11/01/2018 21:39
Phenol	ND	0.0050	1	11/01/2018 21:39
Pyrene	ND	0.0025	1	11/01/2018 21:39
Pyridine	ND	0.25	1	11/01/2018 21:39
1,2,4-Trichlorobenzene	ND	0.25	1	11/01/2018 21:39
2,4,5-Trichlorophenol	ND	0.0025	1	11/01/2018 21:39
2,4,6-Trichlorophenol	ND	0.013	1	11/01/2018 21:39

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B/3640A
Date Prepared:	10/30/18	**Analytical Method:**	SW8270C
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	1810E58-030A	Soil	10/26/2018 09:10	GC21 11011828.D	167522

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
2-Fluorophenol	87	30-130		11/01/2018 21:39
Phenol-d5	82	30-130		11/01/2018 21:39
Nitrobenzene-d5	72	30-130		11/01/2018 21:39
2-Fluorobiphenyl	71	30-130		11/01/2018 21:39
2,4,6-Tribromophenol	30	16-130		11/01/2018 21:39
4-Terphenyl-d14	65	30-130		11/01/2018 21:39

Analyst(s): REB

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3050B
Date Prepared:	10/30/18	**Analytical Method:**	SW6020
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	**1810E58-003A**	**Soil**	**10/26/2018 11:28**	**ICP-MS1 118SMPL.D**	**167511**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	10/30/2018 19:58
Arsenic	**5.5**	0.50	1	10/30/2018 19:58
Barium	**150**	5.0	1	10/30/2018 19:58
Beryllium	**0.56**	0.50	1	10/30/2018 19:58
Cadmium	ND	0.25	1	10/30/2018 19:58
Chromium	**41**	0.50	1	10/30/2018 19:58
Cobalt	**13**	0.50	1	10/30/2018 19:58
Copper	**26**	0.50	1	10/30/2018 19:58
Lead	**7.0**	0.50	1	10/30/2018 19:58
Mercury	ND	0.050	1	10/30/2018 19:58
Molybdenum	**0.87**	0.50	1	10/30/2018 19:58
Nickel	**66**	0.50	1	10/30/2018 19:58
Selenium	ND	0.50	1	10/30/2018 19:58
Silver	ND	0.50	1	10/30/2018 19:58
Thallium	ND	0.50	1	10/30/2018 19:58
Vanadium	**48**	0.50	1	10/30/2018 19:58
Zinc	**67**	5.0	1	10/30/2018 19:58

Surrogates	REC (%)	Limits	
Terbium	99	70-130	10/30/2018 19:58

Analyst(s): ND

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3050B
Date Prepared:	10/30/18	**Analytical Method:**	SW6020
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	**1810E58-007A**	**Soil**	**10/26/2018 11:46**	**ICP-MS1 136SMPL.D**	**167511**

Analytes	Result	RL	DF	Date Analyzed
Antimony	**0.57**	0.50	1	10/30/2018 21:48
Arsenic	**6.1**	0.50	1	10/30/2018 21:48
Barium	**160**	5.0	1	10/30/2018 21:48
Beryllium	**0.56**	0.50	1	10/30/2018 21:48
Cadmium	ND	0.25	1	10/30/2018 21:48
Chromium	**47**	0.50	1	10/30/2018 21:48
Cobalt	**13**	0.50	1	10/30/2018 21:48
Copper	**30**	0.50	1	10/30/2018 21:48
Lead	**7.7**	0.50	1	10/30/2018 21:48
Mercury	**0.072**	0.050	1	10/30/2018 21:48
Molybdenum	**1.2**	0.50	1	10/30/2018 21:48
Nickel	**74**	0.50	1	10/30/2018 21:48
Selenium	ND	0.50	1	10/30/2018 21:48
Silver	ND	0.50	1	10/30/2018 21:48
Thallium	ND	0.50	1	10/30/2018 21:48
Vanadium	**41**	0.50	1	10/30/2018 21:48
Zinc	**62**	5.0	1	10/30/2018 21:48

Surrogates	REC (%)	Limits	
Terbium	97	70-130	10/30/2018 21:48

Analyst(s): ND

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3050B
Date Prepared:	10/30/18	**Analytical Method:**	SW6020
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	1810E58-016A	Soil	10/26/2018 10:36	ICP-MS1 138SMPL.D	167511

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	10/30/2018 22:01
Arsenic	**5.2**	0.50	1	10/30/2018 22:01
Barium	**100**	5.0	1	10/30/2018 22:01
Beryllium	**0.51**	0.50	1	10/30/2018 22:01
Cadmium	ND	0.25	1	10/30/2018 22:01
Chromium	**39**	0.50	1	10/30/2018 22:01
Cobalt	**9.8**	0.50	1	10/30/2018 22:01
Copper	**25**	0.50	1	10/30/2018 22:01
Lead	**6.4**	0.50	1	10/30/2018 22:01
Mercury	ND	0.050	1	10/30/2018 22:01
Molybdenum	**0.94**	0.50	1	10/30/2018 22:01
Nickel	**64**	0.50	1	10/30/2018 22:01
Selenium	ND	0.50	1	10/30/2018 22:01
Silver	ND	0.50	1	10/30/2018 22:01
Thallium	ND	0.50	1	10/30/2018 22:01
Vanadium	**34**	0.50	1	10/30/2018 22:01
Zinc	**55**	5.0	1	10/30/2018 22:01

Surrogates	REC (%)	Limits	
Terbium	93	70-130	10/30/2018 22:01

Analyst(s): ND

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3050B
Date Prepared:	10/30/18	**Analytical Method:**	SW6020
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	**1810E58-017A**	**Soil**	**10/26/2018 10:39**	**ICP-MS1 139SMPL.D**	**167511**

Analytes	Result	RL	DF	Date Analyzed
Antimony	**0.57**	0.50	1	10/30/2018 22:07
Arsenic	**5.7**	0.50	1	10/30/2018 22:07
Barium	**160**	5.0	1	10/30/2018 22:07
Beryllium	**0.62**	0.50	1	10/30/2018 22:07
Cadmium	ND	0.25	1	10/30/2018 22:07
Chromium	**48**	0.50	1	10/30/2018 22:07
Cobalt	**13**	0.50	1	10/30/2018 22:07
Copper	**32**	0.50	1	10/30/2018 22:07
Lead	**8.5**	0.50	1	10/30/2018 22:07
Mercury	**0.073**	0.050	1	10/30/2018 22:07
Molybdenum	**1.1**	0.50	1	10/30/2018 22:07
Nickel	**74**	0.50	1	10/30/2018 22:07
Selenium	ND	0.50	1	10/30/2018 22:07
Silver	ND	0.50	1	10/30/2018 22:07
Thallium	ND	0.50	1	10/30/2018 22:07
Vanadium	**43**	0.50	1	10/30/2018 22:07
Zinc	**66**	5.0	1	10/30/2018 22:07

Surrogates	REC (%)	Limits	
Terbium	96	70-130	10/30/2018 22:07

Analyst(s): ND

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3050B
Date Prepared:	10/30/18	**Analytical Method:**	SW6020
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	**1810E58-027A**	**Soil**	**10/26/2018 08:55**	**ICP-MS1 140SMPL.D**	**167511**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	10/30/2018 22:13
Arsenic	**3.0**	0.50	1	10/30/2018 22:13
Barium	**150**	5.0	1	10/30/2018 22:13
Beryllium	ND	0.50	1	10/30/2018 22:13
Cadmium	**0.54**	0.25	1	10/30/2018 22:13
Chromium	**23**	0.50	1	10/30/2018 22:13
Cobalt	**5.7**	0.50	1	10/30/2018 22:13
Copper	**15**	0.50	1	10/30/2018 22:13
Lead	**4.2**	0.50	1	10/30/2018 22:13
Mercury	**0.056**	0.050	1	10/30/2018 22:13
Molybdenum	**1.1**	0.50	1	10/30/2018 22:13
Nickel	**36**	0.50	1	10/30/2018 22:13
Selenium	**0.53**	0.50	1	10/30/2018 22:13
Silver	ND	0.50	1	10/30/2018 22:13
Thallium	ND	0.50	1	10/30/2018 22:13
Vanadium	**34**	0.50	1	10/30/2018 22:13
Zinc	**39**	5.0	1	10/30/2018 22:13

Surrogates	REC (%)	Limits	
Terbium	84	70-130	10/30/2018 22:13

Analyst(s): ND

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3050B
Date Prepared:	10/30/18	**Analytical Method:**	SW6020
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	**1810E58-030A**	**Soil**	**10/26/2018 09:10**	**ICP-MS1 144SMPL.D**	**167511**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	10/30/2018 22:38
Arsenic	**4.7**	0.50	1	10/30/2018 22:38
Barium	**120**	5.0	1	10/30/2018 22:38
Beryllium	ND	0.50	1	10/30/2018 22:38
Cadmium	ND	0.25	1	10/30/2018 22:38
Chromium	**45**	0.50	1	10/30/2018 22:38
Cobalt	**10**	0.50	1	10/30/2018 22:38
Copper	**25**	0.50	1	10/30/2018 22:38
Lead	**8.6**	0.50	1	10/30/2018 22:38
Mercury	ND	0.050	1	10/30/2018 22:38
Molybdenum	**0.63**	0.50	1	10/30/2018 22:38
Nickel	**65**	0.50	1	10/30/2018 22:38
Selenium	ND	0.50	1	10/30/2018 22:38
Silver	ND	0.50	1	10/30/2018 22:38
Thallium	ND	0.50	1	10/30/2018 22:38
Vanadium	**36**	0.50	1	10/30/2018 22:38
Zinc	**54**	5.0	1	10/30/2018 22:38

Surrogates	REC (%)	Limits	
Terbium	98	70-130	10/30/2018 22:38

Analyst(s): ND

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Analytical Report

Client: Langan
Date Received: 10/29/18 16:30
Date Prepared: 10/30/18-11/1/18
Project: 770657001; 425 S. Winchester blvd

WorkOrder: 1810E58
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-1.5	1810E58-001A	Soil	10/26/2018 11:25	GC7 10311812.D	167433

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	10/31/2018 18:00
MTBE	---	0.050	1	10/31/2018 18:00
Benzene	---	0.0050	1	10/31/2018 18:00
Toluene	---	0.0050	1	10/31/2018 18:00
Ethylbenzene	---	0.0050	1	10/31/2018 18:00
m,p-Xylene	---	0.010	1	10/31/2018 18:00
o-Xylene	---	0.0050	1	10/31/2018 18:00
Xylenes	---	0.0050	1	10/31/2018 18:00

Surrogates	REC (%)	Limits	
2-Fluorotoluene	98	62-126	10/31/2018 18:00

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	1810E58-003A	Soil	10/26/2018 11:28	GC7 10311824.D	167433

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	10/31/2018 23:56
MTBE	---	0.050	1	10/31/2018 23:56
Benzene	---	0.0050	1	10/31/2018 23:56
Toluene	---	0.0050	1	10/31/2018 23:56
Ethylbenzene	---	0.0050	1	10/31/2018 23:56
m,p-Xylene	---	0.010	1	10/31/2018 23:56
o-Xylene	---	0.0050	1	10/31/2018 23:56
Xylenes	---	0.0050	1	10/31/2018 23:56

Surrogates	REC (%)	Limits	
2-Fluorotoluene	88	62-126	10/31/2018 23:56

Analyst(s): IA

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Analytical Report

Client: Langan
Date Received: 10/29/18 16:30
Date Prepared: 10/30/18-11/1/18
Project: 770657001; 425 S. Winchester blvd

WorkOrder: 1810E58
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-15	1810E58-006A	Soil	10/26/2018 11:33	GC7 10311825.D	167433

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/01/2018 00:25
MTBE	---	0.050	1	11/01/2018 00:25
Benzene	---	0.0050	1	11/01/2018 00:25
Toluene	---	0.0050	1	11/01/2018 00:25
Ethylbenzene	---	0.0050	1	11/01/2018 00:25
m,p-Xylene	---	0.010	1	11/01/2018 00:25
o-Xylene	---	0.0050	1	11/01/2018 00:25
Xylenes	---	0.0050	1	11/01/2018 00:25

Surrogates	REC (%)	Limits	
2-Fluorotoluene	76	62-126	11/01/2018 00:25

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	1810E58-007A	Soil	10/26/2018 11:46	GC7 10311827.D	167433

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/01/2018 01:25
MTBE	---	0.050	1	11/01/2018 01:25
Benzene	---	0.0050	1	11/01/2018 01:25
Toluene	---	0.0050	1	11/01/2018 01:25
Ethylbenzene	---	0.0050	1	11/01/2018 01:25
m,p-Xylene	---	0.010	1	11/01/2018 01:25
o-Xylene	---	0.0050	1	11/01/2018 01:25
Xylenes	---	0.0050	1	11/01/2018 01:25

Surrogates	REC (%)	Limits	
2-Fluorotoluene	76	62-126	11/01/2018 01:25

Analyst(s): IA

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18-11/1/18	**Analytical Method:**	SW8021B/8015Bm
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-35	**1810E58-010A**	**Soil**	**10/26/2018 12:17**	**GC7 10311829.D**	**167433**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/01/2018 02:25
MTBE	---	0.050	1	11/01/2018 02:25
Benzene	---	0.0050	1	11/01/2018 02:25
Toluene	---	0.0050	1	11/01/2018 02:25
Ethylbenzene	---	0.0050	1	11/01/2018 02:25
m,p-Xylene	---	0.010	1	11/01/2018 02:25
o-Xylene	---	0.0050	1	11/01/2018 02:25
Xylenes	---	0.0050	1	11/01/2018 02:25

Surrogates	REC (%)	Limits	
2-Fluorotoluene	76	62-126	11/01/2018 02:25

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-1.5	**1810E58-012A**	**Soil**	**10/26/2018 10:25**	**GC19 10311808.D**	**167508**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	10/31/2018 15:28
MTBE	---	0.050	1	10/31/2018 15:28
Benzene	---	0.0050	1	10/31/2018 15:28
Toluene	---	0.0050	1	10/31/2018 15:28
Ethylbenzene	---	0.0050	1	10/31/2018 15:28
m,p-Xylene	---	0.010	1	10/31/2018 15:28
o-Xylene	---	0.0050	1	10/31/2018 15:28
Xylenes	---	0.0050	1	10/31/2018 15:28

Surrogates	REC (%)	Limits	
2-Fluorotoluene	70	62-126	10/31/2018 15:28

Analyst(s): IA

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18-11/1/18	**Analytical Method:**	SW8021B/8015Bm
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-3	**1810E58-013A**	**Soil**	**10/26/2018 10:28**	**GC7 10311831.D**	**167508**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/01/2018 03:25
MTBE	---	0.050	1	11/01/2018 03:25
Benzene	---	0.0050	1	11/01/2018 03:25
Toluene	---	0.0050	1	11/01/2018 03:25
Ethylbenzene	---	0.0050	1	11/01/2018 03:25
m,p-Xylene	---	0.010	1	11/01/2018 03:25
o-Xylene	---	0.0050	1	11/01/2018 03:25
Xylenes	---	0.0050	1	11/01/2018 03:25

Surrogates	REC (%)	Limits	
2-Fluorotoluene	67	62-126	11/01/2018 03:25

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	**1810E58-016A**	**Soil**	**10/26/2018 10:36**	**GC7 10311835.D**	**167508**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/01/2018 05:23
MTBE	---	0.050	1	11/01/2018 05:23
Benzene	---	0.0050	1	11/01/2018 05:23
Toluene	---	0.0050	1	11/01/2018 05:23
Ethylbenzene	---	0.0050	1	11/01/2018 05:23
m,p-Xylene	---	0.010	1	11/01/2018 05:23
o-Xylene	---	0.0050	1	11/01/2018 05:23
Xylenes	---	0.0050	1	11/01/2018 05:23

Surrogates	REC (%)	Limits	
2-Fluorotoluene	66	62-126	11/01/2018 05:23

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18-11/1/18	**Analytical Method:**	SW8021B/8015Bm
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	**1810E58-017A**	**Soil**	**10/26/2018 10:39**	**GC7 10311836.D**	**167508**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/01/2018 05:53
MTBE	---	0.050	1	11/01/2018 05:53
Benzene	---	0.0050	1	11/01/2018 05:53
Toluene	---	0.0050	1	11/01/2018 05:53
Ethylbenzene	---	0.0050	1	11/01/2018 05:53
m,p-Xylene	---	0.010	1	11/01/2018 05:53
o-Xylene	---	0.0050	1	11/01/2018 05:53
Xylenes	---	0.0050	1	11/01/2018 05:53

Surrogates	REC (%)	Limits	
2-Fluorotoluene	71	62-126	11/01/2018 05:53

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	**1810E58-027A**	**Soil**	**10/26/2018 08:55**	**GC19 11011819.D**	**167684**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/01/2018 21:05
MTBE	---	0.050	1	11/01/2018 21:05
Benzene	---	0.0050	1	11/01/2018 21:05
Toluene	---	0.0050	1	11/01/2018 21:05
Ethylbenzene	---	0.0050	1	11/01/2018 21:05
m,p-Xylene	---	0.010	1	11/01/2018 21:05
o-Xylene	---	0.0050	1	11/01/2018 21:05
Xylenes	---	0.0050	1	11/01/2018 21:05

Surrogates	REC (%)	Limits	
2-Fluorotoluene	79	62-126	11/01/2018 21:05

Analyst(s): IA

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Analytical Report

Client: Langan
Date Received: 10/29/18 16:30
Date Prepared: 10/30/18-11/1/18
Project: 770657001; 425 S. Winchester blvd

WorkOrder: 1810E58
Extraction Method: SW5030B
Analytical Method: SW8021B/8015Bm
Unit: mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-1.5	1810E58-029A	Soil	10/26/2018 09:05	GC7 10311838.D	167508

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	11/01/2018 06:52
MTBE	---	0.050	1	11/01/2018 06:52
Benzene	---	0.0050	1	11/01/2018 06:52
Toluene	---	0.0050	1	11/01/2018 06:52
Ethylbenzene	---	0.0050	1	11/01/2018 06:52
m,p-Xylene	---	0.010	1	11/01/2018 06:52
o-Xylene	---	0.0050	1	11/01/2018 06:52
Xylenes	---	0.0050	1	11/01/2018 06:52

Surrogates	REC (%)	Limits	
2-Fluorotoluene	79	62-126	11/01/2018 06:52

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	1810E58-030A	Soil	10/26/2018 09:10	GC19 10311817.D	167508

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	10/31/2018 20:02
MTBE	---	0.050	1	10/31/2018 20:02
Benzene	---	0.0050	1	10/31/2018 20:02
Toluene	---	0.0050	1	10/31/2018 20:02
Ethylbenzene	---	0.0050	1	10/31/2018 20:02
m,p-Xylene	---	0.010	1	10/31/2018 20:02
o-Xylene	---	0.0050	1	10/31/2018 20:02
Xylenes	---	0.0050	1	10/31/2018 20:02

Surrogates	REC (%)	Limits	
2-Fluorotoluene	70	62-126	10/31/2018 20:02

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW5030B
Date Prepared:	10/30/18-11/1/18	**Analytical Method:**	SW8021B/8015Bm
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-25	**1810E58-035A**	**Soil**	**10/26/2018 09:41**	**GC19 10311818.D**	**167508**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	10/31/2018 20:32
MTBE	---	0.050	1	10/31/2018 20:32
Benzene	---	0.0050	1	10/31/2018 20:32
Toluene	---	0.0050	1	10/31/2018 20:32
Ethylbenzene	---	0.0050	1	10/31/2018 20:32
m,p-Xylene	---	0.010	1	10/31/2018 20:32
o-Xylene	---	0.0050	1	10/31/2018 20:32
Xylenes	---	0.0050	1	10/31/2018 20:32

Surrogates	REC (%)	Limits	
2-Fluorotoluene	79	62-126	10/31/2018 20:32

Analyst(s): IA

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3050B
Date Prepared:	10/30/18	**Analytical Method:**	SW6020
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-35	**1810E58-010A**	**Soil**	**10/26/2018 12:17**	**ICP-MS1 137SMPL.D**	**167511**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	10/30/2018 21:54
Chromium	**36**	0.50	1	10/30/2018 21:54
Lead	**4.4**	0.50	1	10/30/2018 21:54
Nickel	**45**	0.50	1	10/30/2018 21:54
Zinc	**35**	5.0	1	10/30/2018 21:54

Surrogates	REC (%)	Limits	
Terbium	96	70-130	10/30/2018 21:54

Analyst(s): ND

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B
Date Prepared:	10/30/18-11/5/18	**Analytical Method:**	SW8015B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-1.5	1810E58-001A	Soil	10/26/2018 11:25	GC6B 11011881.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/02/2018 11:51
TPH-Motor Oil (C18-C36)	**6.6**	5.0	1	11/02/2018 11:51

Surrogates	REC (%)	Limits	
C9	95	74-123	11/02/2018 11:51

Analyst(s): JIS Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-5	1810E58-003A	Soil	10/26/2018 11:28	GC6B 11021863.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 11:20
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 11:20

Surrogates	REC (%)	Limits	
C9	96	74-123	11/03/2018 11:20

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-15	1810E58-006A	Soil	10/26/2018 11:33	GC6B 11051855.D	167811

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/06/2018 02:25
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/06/2018 02:25

Surrogates	REC (%)	Limits	
C9	95	74-123	11/06/2018 02:25

Analyst(s): JIS

(Cont.)

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B
Date Prepared:	10/30/18-11/5/18	**Analytical Method:**	SW8015B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-20	1810E58-007A	Soil	10/26/2018 11:46	GC6B 11021891.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 20:25
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 20:25

Surrogates	REC (%)	Limits	
C9	97	74-123	11/03/2018 20:25

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-1-35	1810E58-010A	Soil	10/26/2018 12:17	GC9a 11021854.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 07:46
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 07:46

Surrogates	REC (%)	Limits	
C9	97	74-123	11/03/2018 07:46

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-1.5	1810E58-012A	Soil	10/26/2018 10:25	GC6B 11051857.D	167811

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/06/2018 03:03
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/06/2018 03:03

Surrogates	REC (%)	Limits	
C9	95	74-123	11/06/2018 03:03

Analyst(s): JIS

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B
Date Prepared:	10/30/18-11/5/18	**Analytical Method:**	SW8015B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-3	1810E58-013A	Soil	10/26/2018 10:28	GC9a 11021866.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 11:39
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 11:39

Surrogates	REC (%)	Limits	
C9	96	74-123	11/03/2018 11:39

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-10	1810E58-016A	Soil	10/26/2018 10:36	GC9a 11021870.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 12:56
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 12:56

Surrogates	REC (%)	Limits	
C9	96	74-123	11/03/2018 12:56

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-2-15	1810E58-017A	Soil	10/26/2018 10:39	GC9b 11021863.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 11:00
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 11:00

Surrogates	REC (%)	Limits	
C9	86	74-123	11/03/2018 11:00

Analyst(s): JIS

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B
Date Prepared:	10/30/18-11/5/18	**Analytical Method:**	SW8015B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-3-10	1810E58-027A	Soil	10/26/2018 08:55	GC9b 11021883.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 17:27
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 17:27

Surrogates	REC (%)	Limits	
C9	88	74-123	11/03/2018 17:27

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-1.5	1810E58-029A	Soil	10/26/2018 09:05	GC9b 11021887.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 18:45
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 18:45

Surrogates	REC (%)	Limits	
C9	88	74-123	11/03/2018 18:45

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-3	1810E58-030A	Soil	10/26/2018 09:10	GC9b 11021891.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 20:03
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 20:03

Surrogates	REC (%)	Limits	
C9	89	74-123	11/03/2018 20:03

Analyst(s): JIS

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Analytical Report

Client:	Langan	**WorkOrder:**	1810E58
Date Received:	10/29/18 16:30	**Extraction Method:**	SW3550B
Date Prepared:	10/30/18-11/5/18	**Analytical Method:**	SW8015B
Project:	770657001; 425 S. Winchester blvd	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
EB-4-25	1810E58-035A	Soil	10/26/2018 09:41	GC9a 11021884.D	167472

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	11/03/2018 17:27
TPH-Motor Oil (C18-C36)	ND	5.0	1	11/03/2018 17:27

Surrogates	REC (%)	Limits	
C9	96	74-123	11/03/2018 17:27

Analyst(s): JIS

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/29/18	**BatchID:**	167481
Date Analyzed:	11/1/18	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC23	**Analytical Method:**	SW8081A
Matrix:	Soil	**Unit:**	mg/kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167481

QC Summary Report for SW8081A/8082

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00010	-	-	-
a-BHC	ND	0.00010	-	-	-
b-BHC	ND	0.00030	-	-	-
d-BHC	ND	0.00020	-	-	-
g-BHC	ND	0.00010	-	-	-
Chlordane (Technical)	ND	0.0025	-	-	-
a-Chlordane	ND	0.00010	-	-	-
g-Chlordane	ND	0.00010	-	-	-
p,p-DDD	ND	0.00010	-	-	-
p,p-DDE	ND	0.00010	-	-	-
p,p-DDT	ND	0.00010	-	-	-
Dieldrin	ND	0.00010	-	-	-
Endosulfan I	ND	0.00010	-	-	-
Endosulfan II	ND	0.00010	-	-	-
Endosulfan sulfate	ND	0.00010	-	-	-
Endrin	ND	0.00010	-	-	-
Endrin aldehyde	ND	0.00010	-	-	-
Endrin aldehyde	ND	0.00010	-	-	-
Endrin ketone	ND	0.00010	-	-	-
Heptachlor	ND	0.00010	-	-	-
Heptachlor epoxide	ND	0.00010	-	-	-
Hexachlorobenzene	ND	0.0010	-	-	-
Hexachlorocyclopentadiene	ND	0.0020	-	-	-
Methoxychlor	ND	0.00020	-	-	-
Toxaphene	ND	0.0050	-	-	-
Surrogate Recovery					
Decachlorobiphenyl	0.0042		0.0050	84	28-170

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/29/18	**BatchID:**	167481
Date Analyzed:	11/1/18	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC23	**Analytical Method:**	SW8081A
Matrix:	Soil	**Unit:**	mg/kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167481

QC Summary Report for SW8081A/8082

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.0039	0.0043	0.0050	79	86	31-155	9.14	20
a-BHC	0.0038	0.0042	0.0050	76	83	32-160	9.24	20
b-BHC	0.0038	0.0042	0.0050	76	85	44-149	10.4	20
d-BHC	0.0040	0.0045	0.0050	80	91	37-157	12.1	20
g-BHC	0.0038	0.0042	0.0050	77	85	43-154	9.79	20
a-Chlordane	0.0037	0.0041	0.0050	74	83	39-150	11.2	20
g-Chlordane	0.0034	0.0037	0.0050	67	75	39-151	10.1	20
p,p-DDD	0.0033	0.0037	0.0050	66	74	30-158	11.8	20
p,p-DDE	0.0040	0.0045	0.0050	79	89	47-149	12.3	20
p,p-DDT	0.0039	0.0044	0.0050	78	88	56-166	12.5	20
Dieldrin	0.0043	0.0050	0.0050	87	100	50-163	14.6	20
Endosulfan I	0.0039	0.0044	0.0050	78	88	45-159	12.2	20
Endosulfan II	0.0037	0.0042	0.0050	73	84	41-155	13.7	20
Endosulfan sulfate	0.0044	0.0049	0.0050	87	98	45-156	12.0	20
Endrin	0.0043	0.0050	0.0050	86	100	54-154	14.1	20
Endrin aldehyde	0.0025	0.0028	0.0050	50	56	27-159	10.5	20
Endrin ketone	0.0035	0.0039	0.0050	71	78	40-147	9.01	20
Heptachlor	0.0041	0.0046	0.0050	82	91	52-165	10.4	20
Heptachlor epoxide	0.0038	0.0043	0.0050	75	85	46-145	12.2	20
Hexachlorobenzene	0.0035	0.0037	0.0050	70	74	22-156	4.71	20
Hexachlorocyclopentadiene	0.0038	0.0039	0.0050	77	78	43-173	2.03	20
Methoxychlor	0.0042	0.0046	0.0050	85	91	49-150	7.64	20
Surrogate Recovery								
Decachlorobiphenyl	0.0039	0.0036	0.0050	77	72	28-170	6.40	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/29/18 - 10/30/18	**BatchID:**	167477
Date Analyzed:	10/31/18	**Extraction Method:**	SW3550B
Instrument:	GC40	**Analytical Method:**	SW8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167477

QC Summary Report for SW8082

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aroclor1016	ND	0.0051	0.050	-	-	-
Aroclor1221	ND	0.011	0.050	-	-	-
Aroclor1232	ND	0.0063	0.050	-	-	-
Aroclor1242	ND	0.0067	0.050	-	-	-
Aroclor1248	ND	0.0040	0.050	-	-	-
Aroclor1254	ND	0.0068	0.050	-	-	-
Aroclor1260	ND	0.0061	0.050	-	-	-
PCBs, total	ND	N/A	0.050	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.048			0.050	95	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aroclor1016	0.16	0.14	0.15	107	91	70-130	16.6	20
Aroclor1260	0.15	0.13	0.15	101	85	70-130	16.9	20
Surrogate Recovery								
Decachlorobiphenyl	0.046	0.047	0.050	91	94	70-130	2.95	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167509
Date Analyzed:	10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167509

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0050	-	-	-
Benzene	ND	0.0050	-	-	-
Bromobenzene	ND	0.0050	-	-	-
Bromochloromethane	ND	0.0050	-	-	-
Bromodichloromethane	ND	0.0010	-	-	-
Bromoform	ND	0.0050	-	-	-
Bromomethane	ND	0.0050	-	-	-
2-Butanone (MEK)	ND	0.020	-	-	-
t-Butyl alcohol (TBA)	ND	0.050	-	-	-
n-Butyl benzene	ND	0.0050	-	-	-
sec-Butyl benzene	ND	0.0050	-	-	-
tert-Butyl benzene	ND	0.0050	-	-	-
Carbon Disulfide	ND	0.0050	-	-	-
Carbon Tetrachloride	ND	0.0050	-	-	-
Chlorobenzene	ND	0.0050	-	-	-
Chloroethane	ND	0.0050	-	-	-
Chloroform	ND	0.0050	-	-	-
Chloromethane	ND	0.0050	-	-	-
2-Chlorotoluene	ND	0.0050	-	-	-
4-Chlorotoluene	ND	0.0050	-	-	-
Dibromochloromethane	ND	0.0050	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.00025	-	-	-
1,2-Dibromoethane (EDB)	ND	0.00010	-	-	-
Dibromomethane	ND	0.0050	-	-	-
1,2-Dichlorobenzene	ND	0.0050	-	-	-
1,3-Dichlorobenzene	ND	0.0050	-	-	-
1,4-Dichlorobenzene	ND	0.0050	-	-	-
Dichlorodifluoromethane	ND	0.0050	-	-	-
1,1-Dichloroethane	ND	0.0050	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	-	-	-
1,1-Dichloroethene	ND	0.00025	-	-	-
cis-1,2-Dichloroethene	ND	0.0050	-	-	-
trans-1,2-Dichloroethene	ND	0.0050	-	-	-
1,2-Dichloropropane	ND	0.0050	-	-	-
1,3-Dichloropropane	ND	0.0050	-	-	-
2,2-Dichloropropane	ND	0.0050	-	-	-
1,1-Dichloropropene	ND	0.0050	-	-	-

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167509
Date Analyzed:	10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167509

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0050	-	-	-
trans-1,3-Dichloropropene	ND	0.0050	-	-	-
Diisopropyl ether (DIPE)	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0050	-	-	-
Freon 113	ND	0.0050	-	-	-
Hexachlorobutadiene	ND	0.0050	-	-	-
Hexachloroethane	ND	0.0050	-	-	-
2-Hexanone	ND	0.0050	-	-	-
Isopropylbenzene	ND	0.0050	-	-	-
4-Isopropyl toluene	ND	0.0050	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0050	-	-	-
Methylene chloride	ND	0.010	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.0050	-	-	-
Naphthalene	ND	0.0050	-	-	-
n-Propyl benzene	ND	0.0050	-	-	-
Styrene	ND	0.0050	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0050	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.00025	-	-	-
Tetrachloroethene	ND	0.00025	-	-	-
Toluene	ND	0.0050	-	-	-
1,2,3-Trichlorobenzene	ND	0.0050	-	-	-
1,2,4-Trichlorobenzene	ND	0.0050	-	-	-
1,1,1-Trichloroethane	ND	0.0050	-	-	-
1,1,2-Trichloroethane	ND	0.0050	-	-	-
Trichloroethene	ND	0.0050	-	-	-
Trichlorofluoromethane	ND	0.0050	-	-	-
1,2,3-Trichloropropane	ND	0.00025	-	-	-
1,2,4-Trimethylbenzene	ND	0.0050	-	-	-
1,3,5-Trimethylbenzene	ND	0.0050	-	-	-
Vinyl Chloride	ND	0.00025	-	-	-
m,p-Xylene	ND	0.0050	-	-	-
o-Xylene	ND	0.0050	-	-	-
Xylenes, Total	ND	0.0050	-	-	-

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167509
Date Analyzed:	10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167509

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	0.12		0.12	96	87-127
Toluene-d8	0.15		0.12	123	93-141
4-BFB	0.015		0.012	118	84-137
Benzene-d6	0.078		0.10	78	67-131
Ethylbenzene-d10	0.11		0.10	110	78-153
1,2-DCB-d4	0.074		0.10	74	63-109

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167509
Date Analyzed:	10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167509

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	0.16	0.18	0.20	82	91	48-156	10.7	30
tert-Amyl methyl ether (TAME)	0.0058	0.0065	0.010	58	65	56-115	12.3	30
Benzene	0.0085	0.0097	0.010	85	97	63-131	13.6	30
Bromobenzene	0.0092	0.0093	0.010	92	93	66-127	0.441	30
Bromochloromethane	0.0079	0.0089	0.010	79	89	64-124	11.4	30
Bromodichloromethane	0.0064	0.0072	0.010	64	72	64-120	12.4	30
Bromoform	0.0044	0.0045	0.010	44, F2	45, F2	48-92	2.59	30
Bromomethane	0.016	0.017	0.010	161	167, F2	25-163	3.54	30
2-Butanone (MEK)	0.026	0.030	0.040	65	74	51-133	13.6	30
t-Butyl alcohol (TBA)	0.025	0.028	0.040	64	69	52-129	7.89	30
n-Butyl benzene	0.013	0.014	0.010	130	139	83-200	6.84	30
sec-Butyl benzene	0.013	0.014	0.010	127	135	81-199	6.05	30
tert-Butyl benzene	0.011	0.012	0.010	113	120	79-178	5.85	30
Carbon Disulfide	0.0072	0.0083	0.010	72	83	64-136	13.8	30
Carbon Tetrachloride	0.0074	0.0086	0.010	74	86	66-140	15.5	30
Chlorobenzene	0.0092	0.0094	0.010	92	94	73-116	2.19	30
Chloroethane	0.0083	0.010	0.010	83	100	35-147	18.1	30
Chloroform	0.0083	0.0095	0.010	83	95	65-130	13.2	30
Chloromethane	0.0078	0.0087	0.010	78	87	30-137	10.9	30
2-Chlorotoluene	0.011	0.011	0.010	109	113	75-152	3.65	30
4-Chlorotoluene	0.010	0.011	0.010	104	107	71-148	2.81	30
Dibromochloromethane	0.0059	0.0060	0.010	59, F2	60, F2	61-106	1.13	30
1,2-Dibromo-3-chloropropane	0.0020	0.0020	0.0040	50	49	36-120	1.26	30
1,2-Dibromoethane (EDB)	0.0072	0.0074	0.010	72	74	67-118	2.09	30
Dibromomethane	0.0072	0.0081	0.010	72	81	61-116	10.9	30
1,2-Dichlorobenzene	0.0079	0.0079	0.010	79	79	59-106	0	30
1,3-Dichlorobenzene	0.0097	0.010	0.010	97	100	75-129	2.30	30
1,4-Dichlorobenzene	0.0094	0.0094	0.010	94	94	66-127	0	30
Dichlorodifluoromethane	0.0061	0.0056	0.010	61	56	13-74	7.41	30
1,1-Dichloroethane	0.0085	0.0097	0.010	85	97	65-134	13.4	30
1,2-Dichloroethane (1,2-DCA)	0.0075	0.0084	0.010	75	84	57-131	12.4	30
1,1-Dichloroethene	0.0093	0.011	0.010	93	108	62-127	14.2	30
cis-1,2-Dichloroethene	0.0083	0.0094	0.010	83	94	66-130	12.3	30
trans-1,2-Dichloroethene	0.0086	0.0099	0.010	86	99	60-131	13.2	30
1,2-Dichloropropane	0.0080	0.0091	0.010	80	91	63-127	12.9	30
1,3-Dichloropropane	0.0087	0.0089	0.010	87	89	68-124	1.90	30
2,2-Dichloropropane	0.0079	0.0092	0.010	79	92	63-150	15.2	30
1,1-Dichloropropene	0.0090	0.010	0.010	90	105	67-134	15.0	30

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167509
Date Analyzed:	10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167509

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.0080	0.0081	0.010	80	81	65-138	1.07	30
trans-1,3-Dichloropropene	0.0073	0.0074	0.010	73	74	66-124	2.32	30
Diisopropyl ether (DIPE)	0.0074	0.0083	0.010	74	83	58-129	11.3	30
Ethylbenzene	0.010	0.011	0.010	101	106	73-145	4.79	30
Ethyl tert-butyl ether (ETBE)	0.0065	0.0073	0.010	65	73	62-125	11.5	30
Freon 113	0.0077	0.0091	0.010	77	91	55-116	15.9	30
Hexachlorobutadiene	0.013	0.013	0.010	126	134	75-178	6.18	30
Hexachloroethane	0.0092	0.0096	0.010	92	96	75-152	4.62	30
2-Hexanone	0.0051	0.0050	0.010	51	50	41-113	0.528	30
Isopropylbenzene	0.012	0.013	0.010	121	128	67-172	6.00	30
4-Isopropyl toluene	0.012	0.013	0.010	122	128	88-171	4.81	30
Methyl-t-butyl ether (MTBE)	0.0067	0.0075	0.010	67	75	58-122	12.0	30
Methylene chloride	0.0090	0.010	0.010	90	101	57-140	12.2	30
4-Methyl-2-pentanone (MIBK)	0.0059	0.0058	0.010	59	58	42-117	1.02	30
Naphthalene	0.0049	0.0041	0.010	49	41	29-65	17.7	30
n-Propyl benzene	0.012	0.013	0.010	120	132	85-174	9.30	30
Styrene	0.0080	0.0078	0.010	80	78	63-126	2.35	30
1,1,1,2-Tetrachloroethane	0.0079	0.0081	0.010	79	81	68-131	2.30	30
1,1,2,2-Tetrachloroethane	0.0062	0.0066	0.010	62	66	45-121	5.70	30
Tetrachloroethene	0.0099	0.010	0.010	99	103	65-150	4.79	30
Toluene	0.0098	0.010	0.010	98	103	72-135	4.94	30
1,2,3-Trichlorobenzene	0.0055	0.0053	0.010	55	53	35-80	3.56	30
1,2,4-Trichlorobenzene	0.0070	0.0069	0.010	70	69	45-103	2.50	30
1,1,1-Trichloroethane	0.0084	0.0097	0.010	84	97	67-137	14.7	30
1,1,2-Trichloroethane	0.0077	0.0079	0.010	77	79	67-117	2.64	30
Trichloroethene	0.0089	0.010	0.010	89	100	62-135	11.0	30
Trichlorofluoromethane	0.0062	0.0074	0.010	62	74	56-124	17.2	30
1,2,3-Trichloropropane	0.0074	0.0077	0.010	74	77	58-133	2.80	30
1,2,4-Trimethylbenzene	0.011	0.011	0.010	108	112	78-161	3.56	30
1,3,5-Trimethylbenzene	0.012	0.012	0.010	115	120	85-170	3.91	30
Vinyl Chloride	0.0093	0.010	0.010	93	105	32-142	12.0	30
m,p-Xylene	0.018	0.019	0.020	92	95	70-138	3.26	30
o-Xylene	0.0096	0.0099	0.010	96	99	69-135	2.79	30
Xylenes, Total	0.028	0.029	0.030	93	96	70-137	3.10	30

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167509
Date Analyzed:	10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167509

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	0.13	0.14	0.12	103	113	87-127	9.53	30
Toluene-d8	0.15	0.15	0.12	123	123	93-141	0	30
4-BFB	0.016	0.016	0.012	127	124	84-137	1.68	30
Benzene-d6	0.075	0.088	0.10	75	88	67-131	15.2	30
Ethylbenzene-d10	0.11	0.11	0.10	106	113	78-153	6.08	30
1,2-DCB-d4	0.074	0.075	0.10	74	75	63-109	1.72	30

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167522
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167522

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.0013	-	-	-
Acenaphthylene	ND	0.0013	-	-	-
Acetochlor	ND	0.25	-	-	-
Anthracene	ND	0.0013	-	-	-
Benzidine	ND	1.2	-	-	-
Benzo (a) anthracene	ND	0.0050	-	-	-
Benzo (a) pyrene	ND	0.0025	-	-	-
Benzo (b) fluoranthene	ND	0.0013	-	-	-
Benzo (g,h,i) perylene	ND	0.0025	-	-	-
Benzo (k) fluoranthene	ND	0.0013	-	-	-
Benzyl Alcohol	ND	1.2	-	-	-
1,1-Biphenyl	ND	0.013	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.25	-	-	-
Bis (2-chloroethyl) Ether	ND	0.0025	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.0025	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.50	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.0050	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.25	-	-	-
Butylbenzyl Phthalate	ND	0.025	-	-	-
4-Chloroaniline	ND	0.0025	-	-	-
4-Chloro-3-methylphenol	ND	0.25	-	-	-
2-Chloronaphthalene	ND	0.25	-	-	-
2-Chlorophenol	ND	0.0050	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.25	-	-	-
Chrysene	ND	0.0025	-	-	-
Dibenzo (a,h) anthracene	ND	0.0025	-	-	-
Dibenzofuran	ND	0.25	-	-	-
Di-n-butyl Phthalate	ND	0.0025	-	-	-
1,2-Dichlorobenzene	ND	0.25	-	-	-
1,3-Dichlorobenzene	ND	0.25	-	-	-
1,4-Dichlorobenzene	ND	0.25	-	-	-
3,3-Dichlorobenzidine	ND	0.0025	-	-	-
2,4-Dichlorophenol	ND	0.013	-	-	-
Diethyl Phthalate	ND	0.0050	-	-	-
2,4-Dimethylphenol	ND	0.25	-	-	-
Dimethyl Phthalate	ND	0.0025	-	-	-
4,6-Dinitro-2-methylphenol	ND	1.2	-	-	-
2,4-Dinitrophenol	ND	0.13	-	-	-

(Cont.)

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167522
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167522

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
2,4-Dinitrotoluene	ND	0.0063	-	-	-
2,6-Dinitrotoluene	ND	0.0025	-	-	-
Di-n-octyl Phthalate	ND	0.0050	-	-	-
1,2-Diphenylhydrazine	ND	0.25	-	-	-
Fluoranthene	ND	0.0013	-	-	-
Fluorene	ND	0.0025	-	-	-
Hexachlorobenzene	ND	0.0013	-	-	-
Hexachlorobutadiene	ND	0.0025	-	-	-
Hexachlorocyclopentadiene	ND	2.0	-	-	-
Hexachloroethane	ND	0.0025	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.0025	-	-	-
Isophorone	ND	0.25	-	-	-
2-Methylnaphthalene	ND	0.0025	-	-	-
2-Methylphenol (o-Cresol)	ND	0.50	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	-	-	-
Naphthalene	ND	0.0013	-	-	-
2-Nitroaniline	ND	1.2	-	-	-
3-Nitroaniline	ND	1.2	-	-	-
4-Nitroaniline	ND	1.2	-	-	-
Nitrobenzene	ND	0.25	-	-	-
2-Nitrophenol	ND	1.2	-	-	-
4-Nitrophenol	ND	1.2	-	-	-
N-Nitrosodimethylamine	ND	1.2	-	-	-
N-Nitrosodiphenylamine	ND	0.25	-	-	-
N-Nitrosodi-n-propylamine	ND	0.25	-	-	-
Pentachlorophenol	ND	0.031	-	-	-
Phenanthrene	ND	0.0050	-	-	-
Phenol	ND	0.0050	-	-	-
Pyrene	ND	0.0025	-	-	-
Pyridine	ND	0.25	-	-	-
1,2,4-Trichlorobenzene	ND	0.25	-	-	-
2,4,5-Trichlorophenol	ND	0.0025	-	-	-
2,4,6-Trichlorophenol	ND	0.013	-	-	-

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167522
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167522

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
2-Fluorophenol	1.0		1.25	80	30-130
Phenol-d5	0.89		1.25	71	30-130
Nitrobenzene-d5	0.80		1.25	64	30-130
2-Fluorobiphenyl	0.82		1.25	66	30-130
2,4,6-Tribromophenol	0.69		1.25	55	16-130
4-Terphenyl-d14	0.82		1.25	65	30-130

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167522
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167522

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.089	0.088	0.12	71	71	32-118	0	30
Acenaphthylene	0.093	0.093	0.12	74	74	32-122	0	30
Anthracene	0.094	0.090	0.12	75	72	36-125	4.49	30
Benzidine	2.6	2.2	12.5	21	18	4-83	16.0	30
Benzo (a) anthracene	0.090	0.088	0.12	72	71	35-117	1.65	30
Benzo (a) pyrene	0.096	0.096	0.12	77	77	42-138	0	30
Benzo (b) fluoranthene	0.091	0.090	0.12	73	72	37-125	0.888	30
Benzo (g,h,i) perylene	0.081	0.083	0.12	65	67	45-146	2.89	30
Benzo (k) fluoranthene	0.084	0.089	0.12	67	71	39-124	6.68	30
Benzyl Alcohol	7.8	7.6	12.5	62	61	5-105	2.81	30
Bis (2-chloroethoxy) Methane	1.7	1.7	2.5	69	67	35-115	3.02	30
Bis (2-chloroethyl) Ether	0.087	0.087	0.12	70	70	35-105	0	30
Bis (2-chloroisopropyl) Ether	0.063	0.070	0.12	50	56	34-119	10.3	30
Bis (2-ethylhexyl) Adipate	1.8	1.7	2.5	73	70	27-117	4.15	30
Bis (2-ethylhexyl) Phthalate	0.11	0.10	0.12	85	82	34-124	3.60	30
4-Bromophenyl Phenyl Ether	1.8	1.7	2.5	73	69	33-112	4.68	30
Butylbenzyl Phthalate	1.8	1.7	2.5	70	68	35-127	2.55	30
4-Chloroaniline	0.064	0.068	0.12	52	55	12-77	5.76	30
4-Chloro-3-methylphenol	2.4	2.3	2.5	98	93	35-123	5.39	30
2-Chloronaphthalene	1.6	1.7	2.5	66	67	28-109	1.82	30
2-Chlorophenol	0.10	0.10	0.12	84	83	38-116	1.59	30
4-Chlorophenyl Phenyl Ether	1.8	1.9	2.5	73	74	33-122	1.59	30
Chrysene	0.084	0.083	0.12	67	66	37-116	1.35	30
Dibenzo (a,h) anthracene	0.089	0.091	0.12	71	73	43-141	2.41	30
Dibenzofuran	1.8	1.8	2.5	71	71	33-117	0	30
Di-n-butyl Phthalate	0.11	0.10	0.12	86	81	38-126	6.43	30
1,2-Dichlorobenzene	1.7	1.6	2.5	66	66	34-105	0	30
1,3-Dichlorobenzene	1.7	1.7	2.5	67	67	33-104	0	30
1,4-Dichlorobenzene	1.6	1.6	2.5	66	65	31-102	1.51	30
3,3-Dichlorobenzidine	0.072	0.077	0.12	57	61	14-84	6.56	30
2,4-Dichlorophenol	0.12	0.11	0.12	94	92	31-124	2.32	30
Diethyl Phthalate	0.099	0.098	0.12	79	78	35-118	0.865	30
2,4-Dimethylphenol	2.2	2.1	2.5	88	84	30-120	5.03	30
Dimethyl Phthalate	0.096	0.095	0.12	77	76	33-118	0.404	30
4,6-Dinitro-2-methylphenol	4.5	5.1	12.5	36	41	12-126	11.4	30
2,4-Dinitrophenol	0.18	0.21	0.62	28	34	8-130	19.3	30
2,4-Dinitrotoluene	0.10	0.10	0.12	82	83	38-117	0.776	30
2,6-Dinitrotoluene	0.10	0.10	0.12	81	81	35-121	0	30

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167522
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167522

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Di-n-octyl Phthalate	0.12	0.13	0.12	97	100	42-150	3.47	30
1,2-Diphenylhydrazine	1.5	1.4	2.5	61	57	30-117	6.33	30
Fluoranthene	0.099	0.095	0.12	79	76	38-126	3.88	30
Fluorene	0.10	0.12	0.12	80	99	34-118	21.1	30
Hexachlorobenzene	0.091	0.087	0.12	73	69	30-130	4.88	30
Hexachlorobutadiene	0.097	0.093	0.12	77	75	33-121	3.73	30
Hexachlorocyclopentadiene	5.0	5.1	12.5	40	41	8-89	2.78	30
Hexachloroethane	0.076	0.076	0.12	61	60	32-106	0.279	30
Indeno (1,2,3-cd) pyrene	0.084	0.085	0.12	67	68	43-138	1.59	30
Isophorone	1.8	1.7	2.5	72	70	26-92	2.56	30
2-Methylnaphthalene	0.10	0.10	0.12	83	81	30-121	2.73	30
2-Methylphenol (o-Cresol)	1.8	1.7	2.5	73	69	34-114	5.23	30
3 & 4-Methylphenol (m,p-Cresol)	2.1	1.9	2.5	83	78	26-130	7.21	30
Naphthalene	0.091	0.088	0.12	73	70	33-113	3.42	30
2-Nitroaniline	8.5	8.5	12.5	68	68	29-115	0	30
3-Nitroaniline	7.0	7.0	12.5	56	56	25-93	0	30
4-Nitroaniline	9.0	8.9	12.5	72	71	31-108	0.677	30
Nitrobenzene	1.7	1.7	2.5	69	68	33-122	2.51	30
2-Nitrophenol	10	9.9	12.5	81	79	32-121	2.20	30
4-Nitrophenol	10	10	12.5	82	80	27-102	1.51	30
N-Nitrosodiphenylamine	1.7	1.6	2.5	68, F2	64	43-64	5.92	30
N-Nitrosodi-n-propylamine	1.5	1.5	2.5	61	61	25-108	0	30
Pentachlorophenol	0.52	0.48	0.62	83	77	28-134	6.83	30
Phenanthrene	0.087	0.083	0.12	69	67	36-123	4.22	30
Phenol	0.11	0.11	0.12	84	85	33-107	0.596	30
Pyrene	0.086	0.083	0.12	68	66	38-124	2.97	30
Pyridine	0.99	1.1	2.5	40	44	30-130	9.25	30
1,2,4-Trichlorobenzene	1.9	1.8	2.5	77	73	34-121	4.59	30
2,4,5-Trichlorophenol	0.12	0.12	0.12	97	94	31-126	2.80	30
2,4,6-Trichlorophenol	0.11	0.10	0.12	84	82	32-128	2.24	30

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167522
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC17, GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167522

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	0.98	1.1	1.25	78	84	31-108	7.17	30
Phenol-d5	0.95	1.0	1.25	76	82	32-106	7.65	30
Nitrobenzene-d5	0.89	0.95	1.25	71	76	27-109	5.93	30
2-Fluorobiphenyl	0.81	0.87	1.25	65	70	26-100	6.70	30
2,4,6-Tribromophenol	0.83	0.86	1.25	67	69	25-106	2.84	30
4-Terphenyl-d14	0.86	0.93	1.25	68	74	27-113	8.26	30

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167511
Date Analyzed:	10/30/18	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167511 1810E58-003AMS/MSD 1810E58-003APDS

QC Summary Report for Metals

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.50	-	-	-
Arsenic	ND	0.50	-	-	-
Barium	ND	5.0	-	-	-
Beryllium	ND	0.50	-	-	-
Cadmium	ND	0.25	-	-	-
Chromium	ND	0.50	-	-	-
Cobalt	ND	0.50	-	-	-
Copper	ND	0.50	-	-	-
Lead	ND	0.50	-	-	-
Mercury	ND	0.050	-	-	-
Molybdenum	ND	0.50	-	-	-
Nickel	ND	0.50	-	-	-
Selenium	ND	0.50	-	-	-
Silver	ND	0.50	-	-	-
Thallium	ND	0.50	-	-	-
Vanadium	ND	0.50	-	-	-
Zinc	ND	5.0	-	-	-
Surrogate Recovery					
Terbium	490		500	97	70-130

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167511
Date Analyzed:	10/30/18	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167511 1810E58-003AMS/MSD 1810E58-003APDS

QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	51	50	50	102	100	75-125	1.85	20
Arsenic	50	49	50	99	98	75-125	0.950	20
Barium	510	510	500	103	101	75-125	1.41	20
Beryllium	51	50	50	102	101	75-125	1.46	20
Cadmium	50	49	50	100	98	75-125	1.97	20
Chromium	48	48	50	97	96	75-125	0.352	20
Cobalt	50	50	50	101	99	75-125	1.54	20
Copper	50	49	50	99	98	75-125	1.32	20
Lead	50	49	50	100	98	75-125	1.74	20
Mercury	1.2	1.2	1.25	94	94	75-125	0	20
Molybdenum	51	50	50	101	100	75-125	1.25	20
Nickel	50	49	50	100	98	75-125	1.90	20
Selenium	53	51	50	105	101	75-125	3.87	20
Silver	52	51	50	103	102	75-125	1.44	20
Thallium	49	48	50	98	96	75-125	2.09	20
Vanadium	48	48	50	96	97	75-125	0.559	20
Zinc	490	490	500	98	97	75-125	0.839	20
Surrogate Recovery								
Terbium	500	490	500	100	98	70-130	1.65	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	1	53	44	50	ND	106	87	75-125	19.4	20
Arsenic	1	57	47	50	5.517	103	83	75-125	19.3	20
Barium	1	700	580	500	145.9	111	86	75-125	19.7	20
Beryllium	1	50	42	50	0.5595	98	83	75-125	16.8	20
Cadmium	1	52	43	50	ND	104	86	75-125	18.7	20
Chromium	1	99	82	50	41.06	117	83	75-125	18.7	20
Cobalt	1	60	50	50	13.06	94	74,F10	75-125	17.9	20
Copper	1	79	65	50	26.20	106	78	75-125	19.5	20
Lead	1	60	49	50	6.988	106	84	75-125	20.2,F10	20
Mercury	1	1.3	1.1	1.25	ND	99	81	75-125	19.1	20
Molybdenum	1	54	44	50	0.8677	106	86	75-125	19.9	20
Nickel	1	120	100	50	65.56	110	71,F10	75-125	17.4	20
Selenium	1	53	45	50	ND	105	90	75-125	16.2	20
Silver	1	53	44	50	ND	106	88	75-125	18.4	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167511
Date Analyzed:	10/30/18	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167511 1810E58-003AMS/MSD 1810E58-003APDS

QC Summary Report for Metals

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Thallium	1	51	42	50	ND	102	83	75-125	19.7	20
Vanadium	1	94	78	50	47.70	93	61,F10	75-125	18.7	20
Zinc	1	570	480	500	66.78	100	82	75-125	17.5	20
Surrogate Recovery										
Terbium	1	520	420	500		104	85	70-130	20.4,F1	20

Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Cobalt	61	50	13.06	95	75-125
Lead	58	50	6.988	102	75-125
Vanadium	93	50	47.70	90	75-125

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<2.5	ND	-	-
Arsenic	4.9	5.517	11.2	-
Barium	140	145.9	4.04	20
Beryllium	ND<2.5	0.5595	-	-
Cadmium	ND<1.2	ND	-	-
Chromium	42	41.06	2.29	20
Cobalt	14	13.06	7.20	20
Copper	26	26.20	0.763	20
Lead	6.8	6.988	2.69	-
Mercury	ND<0.25	ND	-	-
Molybdenum	ND<2.5	0.8677	-	-
Nickel	64	65.56	2.38	20
Selenium	ND<2.5	ND	-	-
Silver	ND<2.5	ND	-	-
Thallium	ND<2.5	ND	-	-
Vanadium	49	47.70	2.73	20
Zinc	69	66.78	3.32	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/29/18	**BatchID:**	167433
Date Analyzed:	10/29/18	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167433

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
m,p-Xylene	ND	0.010	-	-	-
o-Xylene	ND	0.0050	-	-	-
Xylenes	ND	0.0050	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.088		0.10	88	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.59	0.60	0.60	99	100	82-118	1.35	20
MTBE	0.089	0.10	0.10	89	103	61-119	15.0	20
Benzene	0.093	0.094	0.10	93	94	77-128	0.543	20
Toluene	0.096	0.097	0.10	96	97	74-132	1.53	20
Ethylbenzene	0.097	0.097	0.10	97	97	84-127	0	20
m,p-Xylene	0.20	0.20	0.20	100	101	80-120	0.755	20
o-Xylene	0.10	0.10	0.10	100	101	80-120	1.11	20
Xylenes	0.30	0.30	0.30	100	101	86-129	0.873	20
Surrogate Recovery								
2-Fluorotoluene	0.089	0.088	0.10	89	88	75-134	2.02	20

(Cont.)

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167508
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC19, GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167508 1810E58-012AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
m,p-Xylene	ND	0.010	-	-	-
o-Xylene	ND	0.0050	-	-	-
Xylenes	ND	0.0050	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.091		0.10	91	75-134

(Cont.)

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167508
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC19, GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167508 1810E58-012AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.57	0.59	0.60	95	98	82-118	3.31	20
MTBE	0.083	0.086	0.10	83	86	61-119	3.40	20
Benzene	0.090	0.096	0.10	90	96	77-128	5.95	20
Toluene	0.093	0.098	0.10	93	98	74-132	5.55	20
Ethylbenzene	0.094	0.099	0.10	94	99	84-127	5.14	20
m,p-Xylene	0.19	0.20	0.20	97	102	80-120	4.82	20
o-Xylene	0.097	0.10	0.10	97	101	80-120	3.96	20
Xylenes	0.29	0.30	0.30	97	101	86-129	4.54	20
Surrogate Recovery								
2-Fluorotoluene	0.086	0.091	0.10	86	91	75-134	6.26	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	1	0.50	0.45	0.60	ND	83	75	58-129	10.2	20
MTBE	1	0.083	0.084	0.10	ND	83	84	47-118	1.86	20
Benzene	1	0.084	0.087	0.10	ND	84	87	55-129	2.79	20
Toluene	1	0.082	0.079	0.10	ND	82	79	56-130	3.52	20
Ethylbenzene	1	0.085	0.085	0.10	ND	85	85	63-129	0	20
m,p-Xylene	1	0.17	0.17	0.20	ND	86	86	80-120	0	20
o-Xylene	1	0.083	0.082	0.10	ND	83	82	80-120	1.11	20
Xylenes	1	0.26	0.25	0.30	ND	85	85	64-131	0	20
Surrogate Recovery										
2-Fluorotoluene	1	0.075	0.076	0.10		75	76	62-126	2.09	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	11/1/18	**BatchID:**	167684
Date Analyzed:	11/2/18	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167684

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
m,p-Xylene	ND	0.010	-	-	-
o-Xylene	ND	0.0050	-	-	-
Xylenes	ND	0.0050	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.092		0.10	92	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.62	0.65	0.60	103	109	82-118	5.08	20
MTBE	0.090	0.090	0.10	90	90	61-119	0	20
Benzene	0.10	0.10	0.10	102	101	77-128	0.965	20
Toluene	0.10	0.10	0.10	104	105	74-132	0.306	20
Ethylbenzene	0.10	0.10	0.10	102	104	84-127	2.17	20
m,p-Xylene	0.20	0.21	0.20	102	106	80-120	3.61	20
o-Xylene	0.099	0.10	0.10	99	102	80-120	3.53	20
Xylenes	0.30	0.31	0.30	101	105	86-129	3.58	20
Surrogate Recovery								
2-Fluorotoluene	0.098	0.097	0.10	98	97	75-134	1.01	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/29/18	**BatchID:**	167433
Date Analyzed:	10/29/18	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167433

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
m,p-Xylene	ND	0.010	-	-	-
o-Xylene	ND	0.0050	-	-	-
Xylenes	ND	0.0050	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.088		0.10	88	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.59	0.60	0.60	99	100	82-118	1.35	20
MTBE	0.089	0.10	0.10	89	103	61-119	15.0	20
Benzene	0.093	0.094	0.10	93	94	77-128	0.543	20
Toluene	0.096	0.097	0.10	96	97	74-132	1.53	20
Ethylbenzene	0.097	0.097	0.10	97	97	84-127	0	20
m,p-Xylene	0.20	0.20	0.20	100	101	80-120	0.755	20
o-Xylene	0.10	0.10	0.10	100	101	80-120	1.11	20
Xylenes	0.30	0.30	0.30	100	101	86-129	0.873	20
Surrogate Recovery								
2-Fluorotoluene	0.089	0.088	0.10	89	88	75-134	2.02	20

(Cont.)

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167508
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC19, GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167508 1810E58-012AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
m,p-Xylene	ND	0.010	-	-	-
o-Xylene	ND	0.0050	-	-	-
Xylenes	ND	0.0050	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.091		0.10	91	75-134

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/30/18	**BatchID:**	167508
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW5030B
Instrument:	GC19, GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167508 1810E58-012AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.57	0.59	0.60	95	98	82-118	3.31	20
MTBE	0.083	0.086	0.10	83	86	61-119	3.40	20
Benzene	0.090	0.096	0.10	90	96	77-128	5.95	20
Toluene	0.093	0.098	0.10	93	98	74-132	5.55	20
Ethylbenzene	0.094	0.099	0.10	94	99	84-127	5.14	20
m,p-Xylene	0.19	0.20	0.20	97	102	80-120	4.82	20
o-Xylene	0.097	0.10	0.10	97	101	80-120	3.96	20
Xylenes	0.29	0.30	0.30	97	101	86-129	4.54	20
Surrogate Recovery								
2-Fluorotoluene	0.086	0.091	0.10	86	91	75-134	6.26	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	1	0.50	0.45	0.60	ND	83	75	58-129	10.2	20
MTBE	1	0.083	0.084	0.10	ND	83	84	47-118	1.86	20
Benzene	1	0.084	0.087	0.10	ND	84	87	55-129	2.79	20
Toluene	1	0.082	0.079	0.10	ND	82	79	56-130	3.52	20
Ethylbenzene	1	0.085	0.085	0.10	ND	85	85	63-129	0	20
m,p-Xylene	1	0.17	0.17	0.20	ND	86	86	80-120	0	20
o-Xylene	1	0.083	0.082	0.10	ND	83	82	80-120	1.11	20
Xylenes	1	0.26	0.25	0.30	ND	85	85	64-131	0	20
Surrogate Recovery										
2-Fluorotoluene	1	0.075	0.076	0.10		75	76	62-126	2.09	20

(Cont.)

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	11/1/18	**BatchID:**	167684
Date Analyzed:	11/2/18	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167684

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
m,p-Xylene	ND	0.010	-	-	-
o-Xylene	ND	0.0050	-	-	-
Xylenes	ND	0.0050	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.092		0.10	92	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.62	0.65	0.60	103	109	82-118	5.08	20
MTBE	0.090	0.090	0.10	90	90	61-119	0	20
Benzene	0.10	0.10	0.10	102	101	77-128	0.965	20
Toluene	0.10	0.10	0.10	104	105	74-132	0.306	20
Ethylbenzene	0.10	0.10	0.10	102	104	84-127	2.17	20
m,p-Xylene	0.20	0.21	0.20	102	106	80-120	3.61	20
o-Xylene	0.099	0.10	0.10	99	102	80-120	3.53	20
Xylenes	0.30	0.31	0.30	101	105	86-129	3.58	20
Surrogate Recovery								
2-Fluorotoluene	0.098	0.097	0.10	98	97	75-134	1.01	20

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	10/29/18	**BatchID:**	167472
Date Analyzed:	10/30/18 - 10/31/18	**Extraction Method:**	SW3550B
Instrument:	GC6A, GC9b	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167472

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	1.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	5.0	-	-	-
Surrogate Recovery					
C9	25		25	100	72-122

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	40	40	40	99	101	75-128	1.49	30
Surrogate Recovery								
C9	25	25	25	99	99	72-122	0	30

(Cont.)

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Quality Control Report

Client:	Langan	**WorkOrder:**	1810E58
Date Prepared:	11/5/18	**BatchID:**	167811
Date Analyzed:	11/5/18 - 11/6/18	**Extraction Method:**	SW3550B
Instrument:	GC9a, GC9b	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	770657001; 425 S. Winchester blvd	**Sample ID:**	MB/LCS/LCSD-167811

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	1.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	5.0	-	-	-
Surrogate Recovery					
C9	24		25	97	72-122

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	43	40	40	106	101	75-128	5.57	30
Surrogate Recovery								
C9	24	24	25	96	95	72-122	0.217	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1810E58 **ClientCode: TRSJ**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☒ Detection Summary ☒ Dry-Weight

Report to:
Peter Cusack
Langan
1 Almaden Blvd, Suite 590
San Jose, CA 95113
(408) 551-6700 FAX:

Email: pcusack@Langan.com
cc/3rd Party: cmadsen@Langan.com;
PO:
Project: 770657001; 425 S. Winchester blvd

Bill to:
Accounts Payable
Langan
555 Montgomery St., Suite 1300
San Francisco, CA 94111
Langan_InvoiceCapture@concursolutio

Requested TAT: 5 days;

Date Received: **10/29/2018**
Date Logged: **10/30/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1810E58-001	EB-1-1.5	Soil	10/26/2018 11:25	☐						A		A				
1810E58-003	EB-1-5	Soil	10/26/2018 11:28	☐		A	A	A	A	A		A				
1810E58-006	EB-1-15	Soil	10/26/2018 11:33	☐						A		A				
1810E58-007	EB-1-20	Soil	10/26/2018 11:46	☐		A	A	A	A	A		A				
1810E58-010	EB-1-35	Soil	10/26/2018 12:17	☐						A	A	A				
1810E58-012	EB-2-1.5	Soil	10/26/2018 10:25	☐						A		A				
1810E58-013	EB-2-3	Soil	10/26/2018 10:28	☐						A		A				
1810E58-016	EB-2-10	Soil	10/26/2018 10:36	☐		A	A	A	A	A		A				
1810E58-017	EB-2-15	Soil	10/26/2018 10:39	☐		A	A	A	A	A		A				
1810E58-027	EB-3-10	Soil	10/26/2018 08:55	☐		A	A	A	A	A		A				
1810E58-029	EB-4-1.5	Soil	10/26/2018 09:05	☐	A					A		A				
1810E58-030	EB-4-3	Soil	10/26/2018 09:10	☐		A	A	A	A	A		A				
1810E58-035	EB-4-25	Soil	10/26/2018 09:41	☐						A		A				

Test Legend:

1	8081_ESL_LL_S	2	8082_PCB_ESL_S [J]	3	8260B_Scan-SIM_S	4	8270_SCSM_GPC_S
5	CAM17MS_TTLC_S	6	G-MBTEX_S	7	LUFTMS_6020_TTLC_S	8	TPH(DMO)_S
9		10		11		12	

Prepared by: Julia Danielsson

The following SampIDs: 001A, 003A, 006A, 007A, 010A, 012A, 013A, 016A, 017A, 027A, 029A, 030A, 035A contain testgroup Multi Range_S.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: LANGAN **Project:** 770657001; 425 S. Winchester blvd **Work Order:** 1810E58
Client Contact: Peter Cusack **QC Level:** LEVEL 2
Contact's Email: pcusack@Langan.com **Comments:** **Date Logged:** 10/30/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1810E58-001A	EB-1-1.5	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 11:25	5 days		☐	
1810E58-002A	EB-1-3	Soil		1	Acetate Liner	☐	10/26/2018 11:27			☑	
1810E58-003A	EB-1-5	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 11:28	5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8260B (VOCs, Scan- SIM)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
1810E58-004A	EB-1-7.5	Soil		1	Acetate Liner	☐	10/26/2018 11:29			☑	
1810E58-005A	EB-1-10	Soil		1	Acetate Liner	☐	10/26/2018 11:30			☑	
1810E58-006A	EB-1-15	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 11:33	5 days		☐	
1810E58-007A	EB-1-20	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 11:46	5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8260B (VOCs, Scan- SIM)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
1810E58-008A	EB-1-25	Soil		1	Acetate Liner	☐	10/26/2018 11:49			☑	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: LANGAN **Project:** 770657001; 425 S. Winchester blvd **Work Order:** 1810E58
Client Contact: Peter Cusack **QC Level:** LEVEL 2
Contact's Email: pcusack@Langan.com **Comments:** **Date Logged:** 10/30/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1810E58-009A	EB-1-30	Soil		1	Acetate Liner	☐	10/26/2018 11:50			☑	
1810E58-010A	EB-1-35	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	10/26/2018 12:17	5 days		☐	
			Multi-Range TPH(g,d,mo)			☐		5 days		☐	
1810E58-011A	EB-1-40	Soil		1	Acetate Liner	☐	10/26/2018 12:19			☑	
1810E58-012A	EB-2-1.5	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 10:25	5 days		☐	
1810E58-013A	EB-2-3	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 10:28	5 days		☐	
1810E58-014A	EB-2-5	Soil		1	Acetate Liner	☐	10/26/2018 10:30			☑	
1810E58-015A	EB-2-7.5	Soil		1	Acetate Liner	☐	10/26/2018 10:32			☑	
1810E58-016A	EB-2-10	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 10:36	5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8260B (VOCs, Scan- SIM)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
1810E58-017A	EB-2-15	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 10:39	5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: LANGAN **Project:** 770657001; 425 S. Winchester blvd **Work Order:** 1810E58
Client Contact: Peter Cusack **QC Level:** LEVEL 2
Contact's Email: pcusack@Langan.com **Comments:** **Date Logged:** 10/30/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1810E58-017A	EB-2-15	Soil	SW8260B (VOCs, Scan- SIM)	1	Acetate Liner	☐	10/26/2018 10:39	5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
1810E58-018A	EB-2-20	Soil		1	Acetate Liner	☐	10/26/2018 10:43			☑	
1810E58-019A	EB-2-25	Soil		1	Acetate Liner	☐	10/26/2018 10:52			☑	
1810E58-020A	EB-2-30	Soil		1	Acetate Liner	☐	10/26/2018 10:55			☑	
1810E58-021A	EB-2-35	Soil		1	Acetate Liner	☐	10/26/2018 10:57			☑	
1810E58-022A	EB-2-40	Soil		1	Acetate Liner	☐	10/26/2018 11:00			☑	
1810E58-023A	EB-3-1.5	Soil		1	Acetate Liner	☐	10/26/2018 8:15			☑	
1810E58-024A	EB-3-3	Soil		1	Acetate Liner	☐	10/26/2018 8:17			☑	
1810E58-025A	EB-3-5	Soil		1	Acetate Liner	☐	10/26/2018 8:19			☑	
1810E58-026A	EB-3-7.5	Soil		1	Acetate Liner	☐	10/26/2018 8:33			☑	
1810E58-027A	EB-3-10	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 8:55	5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8260B (VOCs, Scan- SIM)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: LANGAN **Project:** 770657001; 425 S. Winchester blvd **Work Order:** 1810E58
Client Contact: Peter Cusack **QC Level:** LEVEL 2
Contact's Email: pcusack@Langan.com **Comments:** **Date Logged:** 10/30/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1810E58-028A	EB-3-12	Soil		1	Acetate Liner	☐	10/26/2018 8:53			☑	
1810E58-029A	EB-4-1.5	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 9:05	5 days		☐	
			SW8081A (OC Pesticides) ESLs			☐		5 days		☐	
1810E58-030A	EB-4-3	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 9:10	5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8260B (VOCs, Scan- SIM)			☐		5 days		☐	
			SW8082 (PCBs Only)			☐		5 days		☐	
1810E58-031A	EB-4-5	Soil		1	Acetate Liner	☐	10/26/2018 9:11			☑	
1810E58-032A	EB-4-10	Soil		1	Acetate Liner	☐	10/26/2018 9:14			☑	
1810E58-033A	EB-4-15	Soil		1	Acetate Liner	☐	10/26/2018 9:20			☑	
1810E58-034A	EB-4-20	Soil		1	Acetate Liner	☐	10/26/2018 9:37			☑	
1810E58-035A	EB-4-25	Soil	Multi-Range TPH(g,d,mo)	1	Acetate Liner	☐	10/26/2018 9:41	5 days		☐	
1810E58-036A	EB-4-30	Soil		1	Acetate Liner	☐	10/26/2018 9:50			☑	
1810E58-037A	EB-4-35	Soil		1	Acetate Liner	☐	10/26/2018 9:52			☑	
1810E58-038A	EB-4-40	Soil		1	Acetate Liner	☐	10/26/2018 10:03			☑	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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Appendix D

18I0E58

12734

LANGAN

CHAIN OF CUSTODY RECORD

☐ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111
☐ 501 14th Street, Third Floor, Oakland, CA 94612
☐ 3320 Data Drive, Suite 350, Rancho Cordova, CA 95670-7982
☒ 1 Almaden Boulevard, Suite 590, San Jose, CA 95113

Site Name: 425 S Winchester Blvd

Job Number: 770657001

Project Manager\Contact: Peter J Cusack / Christine B Madsen

Samplers: Christine B Madsen

Recorder (Signature Required): Christine B Madsen

Turnaround Time: Standard

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Air	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Analysis Requested: TPH(g,d,mo)	VOCs	SVOCs	8 OCPs	PCBs	CAM 17 Metals	LUFT 5 Metals	Silica gel clean-up	Hold	Remarks
EB-1-1.5	10/26/2018	1125		X							X	X									
EB-1-3	10/26/2018	1127		X							X									X	
EB-1-5	10/26/2018	1128		X							X	X	X	X	X	X					
EB-1-7.5	10/26/2018	1129		X							X									X	
EB-1-10	10/26/2018	1130		X							X									X	
EB-1-15	10/26/2018	1133		X							X	X									
EB-1-20	10/26/2018	1146		X							X	X	X	X	X	X					
EB-1-25	10/26/2018	1149		X							X									X	
EB-1-30	10/26/2018	1150		X							X									X	
EB-1-35	10/26/2018	1217		X							X	X						X			
EB-1-40	10/26/2018	1219		X							X									X	
EB-2-1.5	10/26/2018	1025		X							X	X									
EB-2-3	10/26/2018	1028		X							X	X									
EB-2-5	10/26/2018	1030		X							X									X	

Relinquished by: (Signature)	Date: 10-29-18	Time 1:23 PM	Received by: (Signature)	Date ~~10/30/18~~ 11/1/18	Time ~~10:00~~ 11/1/18
Relinquished by: (Signature)	Date: 10/29	Time ~~1324~~	Received by: (Signature)	Date 10/29/18	Time ~~1324~~ 11/1/18
Relinquished by: (Signature)	Date: 10/29/18	Time 1630	Received by Lab: (Signature)	Date	Time 1630

Sent to Laboratory (Name): McCampbell

Laboratory Comments/Notes:

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field

COC Number: 2.0

WET

Appendix D

18DE58

12735

LANGAN

CHAIN OF CUSTODY RECORD

☐ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111
☐ 501 14th Street, Third Floor, Oakland, CA 94612
☐ 3320 Data Drive, Suite 350, Rancho Cordova, CA 95670-7982
☒ 1 Almaden Boulevard, Suite 590, San Jose, CA 95113

Site Name: 425 S Winchester Blvd
Job Number: 770657 001
Project Manager\Contact: Peter J Cosack\ Christine B Madsen
Samplers: Christine B Madsen
Recorder (Signature Required): Christine B Madsen

Turnaround Time: Standard

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Air	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice		Analysis Requested: TPH(gas,mo)	VOCs	SVOCs	OCPs	PCBs	CAM17Metals	LUFT5Metals								Silica gel clean-up	Hold	Remarks
EB-2-7.5	10/26/2018	1032		X							X																X	
EB-2-10	10/26/2018	1036		X							X		X	X	X		X											
EB-2-15	10/26/2018	1039		X							X		X	X	X		X											
EB-2-20	10/26/2018	1043		X							X																X	
EB-2-25	10/26/2018	1052		X							X																X	
EB-2-30	10/26/2018	1055		X							X																X	
EB-2-35	10/26/2018	1057		X							X																X	
EB-2-40	10/26/2018	1100		X							X																X	
EB-3-1.5	10/26/2018	0815		X							X																X	
EB-3-3	10/26/2018	0817		X							X																X	
EB-3-5	10/26/2018	0819		X							X																X	
EB-3-7.5	10/26/2018	0833		X							X																X	
EB-3-10	10/26/2018	0855		X							X		X	X	X		X	(52)										run for CAM 17 also
EB-3-12	10/26/2018	0853		X							X																X	

Relinquished by: (Signature) Kim Mantior	Date: 10-29-18	Time: 1:23 PM	Received by: (Signature)	Date: ~~10/30/18~~	Time: ~~1600~~ 11/1/18
Relinquished by: (Signature)	Date: 10/29/18	Time: ~~1730~~ 1654	Received by: (Signature) BUY	Date	Time
Relinquished by: (Signature) C Moore	Date: 10/29/18	Time: 1730	Received by Lab: (Signature)	Date: 10/29/18	Time: 1630

Sent to Laboratory (Name): McCampbell
Laboratory Comments/Notes:

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 2.0

MET

1810E58

12738

LANGAN

CHAIN OF CUSTODY RECORD

☐ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111
☐ 501 14th Street, Third Floor, Oakland, CA 94612
☐ 3320 Data Drive, Suite 350, Rancho Cordova, CA 95670-7982
☒ 1 Almaden Boulevard, Suite 590, San Jose, CA 95113

Site Name: 425 S Winchester Blvd
Job Number: 770657001
Project Manager\Contact: Peter J Cusack \ Christine B Madsen
Samplers: Christine B Madsen
Recorder (Signature Required): Christine B Madsen

Turnaround Time: Standard

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Air	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Analysis Requested: TPH(g,d,mo)	VOCs	SVOCs	OCPs	PCBs	CAM 17	LUFT 5	Silica gel clean-up	Hold	Remarks
EB-4-1.5	10/26/2018	0905		X							X	X			X						
EB-4-3	10/26/2018	0910		X							X	X	X	X		X					
EB-4-5	10/26/2018	0911		X							X									X	
EB-4-10	10/26/2018	0914		X							X									X	
EB-4-15	10/26/2018	0920		X							X									X	
EB-4-20	10/26/2018	0937		X							X									X	
EB-4-25	10/26/2018	0941		X							X	X								/	
EB-4-30	10/26/2018	0950		X							X									X	
EB-4-35	10/26/2018	0952		X							X									X	
EB-4-40	10/26/2018	1003		X							X									X	
				X							X										
				X							X										
				X							X										
				X							X										

Relinquished by: (Signature) C. Ko Mantia	Date: 10-29-18	Time 1:23 PM	Received by: (Signature)	Date 10/29/18	Time 1000
Relinquished by: (Signature) C Mon	Date: 10/29/18	Time 1324	Received by: (Signature)	Date	Time
Relinquished by: (Signature) C Mur	Date: 10/29/18	Time 1630	Received by Lab: (Signature)	Date 10/29/18	Time 1630

11/1/18

Sent to Laboratory (Name): McCampbell
Laboratory Comments/Notes:

Method of Shipment: ☐ Lab courier ☐ Fed Ex ☐ Airborne ☐ UPS ☐ Hand Carried ☐ Private Courier (Co. Name)

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Sample Receipt Checklist

Client Name:	**Langan**	Date and Time Received:	**10/29/2018 16:30**
Project:	**770657001; 425 S. Winchester blvd**	Date Logged:	**10/30/2018**
		Received by:	Julia Danielsson
WorkOrder №:	**1810E58** Matrix: Soil	Logged by:	Julia Danielsson
Carrier:	Laurie Moore (MAI Courier)		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 2°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes	☐	No	☐	NA ☑

Comments: