STEP-OUT SAMPLING
SAN LEANDRO CROSSINGS
WESTERN PARCEL
SAN LEANDRO, CALIFORNIA

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The information contained in this document entitled *Step-out Sampling, San Leandro Crossings, Western Parcel* prepared for the San Leandro Crossings Site at 1333 Martinez Street, San Leandro, California, dated April 9, 2009, has received appropriate oversight and technical review.

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1.0 Introduction

Iris Environmental has completed step-out sampling of a 5.27-acre wedge-shaped vacant dirt and grass lot located at 1333 Martinez Street in San Leandro, California (the Site). The Site is currently owned by Westlake Development Partners, LLC (Westlake). Westlake is considering constructing multi-family housing on the Site. The sampling results presented herein assess the environmental quality of soils at the Site in anticipation of such development by Westlake.

A Phase II Environmental Site Assessment (ESA) was conducted at the Site by Iris Environmental in December 2008. Results of that investigation indicated the presence of total petroleum hydrocarbons (TPHs) in the subsurface at concentrations exceeding agency screening levels. The current investigation was designed to further delineate the presence of contaminants in soils at the Site. Step-out soil samples were collected from around the locations where elevated levels of TPHs were detected in soils during the December 2008 investigation. Analytical detection limits were specified so that results could be compared to applicable environmental screening levels for residential development. The following sections describe details of the investigation and summarize findings.

The text portion of this Phase II ESA report is organized into three sections and is supplemented with four tables, five figures and two appendices. Section 1.0 introduces the goals of the investigation. Section 2.0 outlines the field procedures. Section 3.0 presents a summary of the results. Table 1 presents a summary of sampling and analyses. Tables 2 through 4 present soil chemical test results. Figures 1 and 2 illustrate the Site and sampling locations. Figures 3 through 5 illustrate the geographic distribution of detections in soil of various compounds. Appendix A presents the soil boring logs. Appendix B presents laboratory analytical data sheets.

2.0 Description of Investigation

The following section describes mobilization and field procedures for the subsurface investigation. Borings were advanced using direct push boring technology. Sampling was conducted by Iris Environmental on February 18, 2009.

2.1 Mobilization for Field Work

2.1.1 Sampling and Analysis Plan

A sampling and analysis plan was created based on Iris Environmental's understanding of the Site's history, the results of the December 2008 Phase II ESA, and potential future development. Iris Environmental designed a sampling and analysis plan using draft architectural concept drawings, known areas of contamination, Site use history, and applicable environmental screening levels (ESLs at residential screening levels). The primary purpose of this step-out sampling investigation was to further delineate the extent of TPH contamination in the soil around the Phase II ESA sample locations WP-3 and WP-5. Eight sampling locations were proposed and an additional two locations were added based on observations made in the field. Figure 2 illustrates the 10 sample locations as executed during the sampling program. With certain exceptions as explained below in Section 2.2.2, five soil samples were proposed at each location, to be collected at five foot intervals beginning at 5 feet below ground surface (ft bgs) and extending to 25 ft bgs. All samples were successfully collected at their respective target depths. Table 1 provides a summary of sample depths and analyses as executed during the sampling program.

2.1.2 Permitting and Utility Locating

Various activities were conducted prior to the start of field work. Prior to beginning subsurface work, each boring location was also cleared for potential underground utilities by an independent utility survey subcontractor, ForeSite Engineering Surveys, Inc. of Pleasant Hill, California, under the oversight of Iris Environmental. Underground Service Alert (USA) was notified of planned investigation activities more than 48 hours prior to the start of drilling. Drilling permits were obtained from the Alameda County Public Works Agency (ACPWA). A health and safety plan was prepared for the Site and was readily available at all times during drilling activities.

2.2 Soil Sampling

2.2.1 Soil Sampling Procedures

Soil samples were collected using a direct push drill rig advancing Geoprobe®-type drill rods. Drilling activities for soil sampling were conducted by RSI Drilling (RSI) of Woodland, California, a C-57 licensed drilling company working directly under the oversight of Iris Environmental. Throughout the drilling activities, an Iris Environmental geologist was present to obtain samples of subsurface materials, take notes on subsurface lithology, make observations of the work area conditions, conduct health and safety monitoring for the possible presence of organic vapors during drilling, screen and log soil samples, and provide technical assistance as required. "Macro-core" (1.75-inch internal

diameter) rods were used to obtain enough soil volume for all analyses. Soil samples were retained within the sample barrel in new disposable acetate liners, which served as soil sample tubes. Six-inch lengths of acetate tubes were cut from as near to the target depth as possible.

Prior to mobilization of the equipment, the drill rigs, drill pipe, sampling equipment, and other associated equipment were cleaned with a high pressure steam cleaner to remove any oil, grease, mud or other foreign matter. Sampling equipment was cleaned between each boring location to reduce the potential for cross-contamination between borings.

Following the collection of groundwater samples, boreholes were grouted to the surface in accordance with regional guidelines.

2.2.2 Soil Sample Collection

Five soil samples were collected from each sample location. Samples were collected from 5 ft bgs, 10 ft bgs, 15 ft bgs, 20 ft bgs and 25 ft bgs at all sample locations with the exception of WP3-S1 (3 and 5 ft bgs), WP3-S2 (3 and 5 ft bgs), and WP5-S1 (3, 5, 15, 20, and 25 ft bgs). Depending on collection depth, soil samples were analyzed for one or more of the following: total petroleum hydrocarbons in the diesel and motor oil ranges (TPH-d/mo) by USEPA Method 8015M; benzene, toluene, ethylbenzene, and xylenes (BTEX) by USEPA Method 8021B; and polynuclear aromatic hydrocarbons (PAHs) by USEPA Method 8270 – SIM. Sample depths and analyses are summarized in Table 1.

All samples were placed in iced coolers immediately after collection. Samples were transported under chain-of-custody protocol to Curtis & Tompkins, Ltd., a California-certified laboratory located in Berkeley, California. The results of the chemical analyses are summarized in Section 3.0.

2.3 Subsurface Geology

Soil cores not submitted for chemical analyses were classified by an Iris Environmental geologist according to the Unified Soil Classification System, and colors were identified using the Munsell color chart. Logs of subsurface geology were maintained for all borings, except WP3-S1 and WP3-S2, and are provided in Appendix A. Logs were not completed for locations WP3-S1 and WP3-S2 due to the shallow depths sampled and limited recovery.

3.0 Results

Site soils consisted primarily of sandy clays and clayey sands. The percentage of fines was generally greatest between 5 ft bgs and 20 ft bgs, where consistent clays were encountered. Logs of subsurface geology are provided in Appendix A.

Soil samples collected during this investigation were analyzed for various chemical compounds as shown in Table 1. The results of the chemical analyses are summarized below and presented in Tables 2 through 4. Laboratory analytical data sheets are provided in Appendix B.

3.1 Results of Soil Chemical Analysis

Soil samples were collected from each sample location at various depths as described in Section 2.0 and submitted for analysis of one or more of the following: TPH-d/mo by USEPA Method 8015B, TPH-g and BTEX by USEPA Method 8021B, and Priority PAHs by USEPA Method 8270-SIM. Sample analyses are summarized in Table 1. Tables 2 through 4 present analytical results for soil chemical testing.

3.1.1 TPH in Soil

Forty-four soil samples from 10 sample locations were submitted for analysis of TPH-d/mo by USEPA Method 8015B as illustrated in Table 1. TPH-d was detected in 22 samples from all 10 sample locations at concentrations ranging from 1.0 milligrams per kilogram (mg/kg) to 6,900 mg/kg. TPH–mo was detected in 14 samples from six distinct sample locations at concentrations ranging from 8.7 mg/kg to 4,100 mg/kg.

Twenty-six soil samples from 10 sample locations were submitted for analysis of TPH-g by USEPA Method 8015B as illustrated in Table 1. TPH-g was detected in seven samples from three distinct sample locations at concentrations ranging from 1.6 mg/kg to 190 mg/kg.

TPH results are presented in Table 2. Detections are presented in Figure 3. It should be noted that samples that did not contain TPHs above detection limits are not represented in Figure 3.

3.1.2 BTEX in Soil

Twenty-six soil samples from 10 sample locations were submitted for analysis of BTEX by USEPA Method 8021B as illustrated in Table 1. Ethylbenzene was detected in one sample at a concentration of 120 micrograms per kilogram (µg/kg) and xylene was detected in three samples from two locations at concentrations ranging from 60 µg/kg to 640 µg/kg. BTEX results are presented in Table 3 and in Figure 4.

3.1.3 PAH in Soil

Two soil samples from one sample location were submitted for analysis of polynuclear aromatic hydrocarbons (PAHs) by USEPA Method 8270-SIM as shown in Table 1. The

3 ft bgs and the 5 ft bgs samples from location WP5-S1 were analyzed for PAHs. PAHs were detected in both samples at concentrations ranging from 38 micrograms per kilogram (µg/kg) to 2,200 µg/kg. PAH results are presented in Table 4 and Figure 5.

3.1.3 Summary of Data Quality

During this investigation, all laboratory analyses for soil were performed by Curtis and Tompkins, Ltd. of Berkeley, California, and Forensic Analytical of Hayward, California. According to a review of the documentation provided by the laboratories, all laboratory analyses for soil were performed in accordance with the analyses specified in the COC for each soil sample. All method-specific and laboratory QC criteria were met.

In summary, none of the data has been qualified as rejected data because of not meeting method-specific and/or laboratory QC criteria.

TABLE 1 - SUMMARY OF STEP-OUT SAMPLING AND ANALYTICAL TESTING
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

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		Soil Analyses		
Sample Location	**Sample Depths (1)**	**TPH-d/mo(2)**	**TPH-g + BTEX (3)**	**PAHs (4)**
WP3-S1	3	X		
	5	X	X	
WP3-S2	3	X		
	5	X	X	
WP5-S1	3	X		X
	5	X *	X	X
	15	X *	X	
	20	X *		
	25	X	X	
WP5-S2	5	X	X	
	10	X		
	15	X	X	
	20	X		
	25	X	X	
WP5-S3	5	X	X	
	10	X		
	15	X	X	
	20	X		
	25	X	X	
WP5-S4	5	X	X	
	10	X		
	15	X	X	
	20	X		
	25	X	X	
WP5-S5	5	X	X	
	10	X		
	15	X	X	
	20	X		
	25	X	X	
WP5-S6	5	X	X	
	10	X		
	15	X	X	
	20	X		
	25	X	X	
WP5-S7	5	X	X	
	10	X		
	15	X	X	
	20	X		
	25	X	X	
WP5-S8	5	X	X	
	10	X		
	15	X	X	
	20	X		
	25	X	X	

Notes:

(1) Sample depths indicated in approximate feet below ground surface (ft bgs).

(2) "TPH-d/mo" indicates total petroleum hydrocarbons in the diesel and motor oil ranges by USEPA Method 8015B.

(3) "TPH-g + BTEX" indicates total petroleum hydrocarbons in the gasoline ranges by USEPA Method 8015B, and benzene, toluene, ethylbenzene, and xylenes by USEPA Method 8021B.

(4) "PAHs" indicates polynuclear aromatic hydrocarbons by USEPA Method 8270 - SIM.

"X" indicates sample was collected and analyzed for the analyses listed.

"*" indicates samples was analyzed both with and without the silica-gel cleanup method.

TABLE 2: SOIL CHEMICAL TEST RESULTS – TOTAL PETROLEUM HYDROCARBONS
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP3-S1	WP3-S1	WP3-S2	WP3-S2	WP5-S1	WP5-S1	WP5-S1	WP5-S1	WP5-S1
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021
DEPTH (2)	3.0	5.0	3.0	5.0	3.0	5.0	15.0	20.0	25.0
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Gasoline C7-C12	--	<0.95	--	<1.1	--	**7.7 Y**	**1.6 Y**	--	**190 Y**
Diesel C10-C24	**1.5 Y**	<0.99	<0.99	**740 Y**	**480 Y**	**3600*/3100**	**380*/360**	**730*/590**	**5400**
Motor Oil C24-C36	**8.7**	<5.0	<5.0	**2500**	**1200**	**1700*/1500**	**180*/190**	**340*/290**	**2700**

Notes:
mg/kg = millograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
Y= Sample exhibits chromatographic pattern which does not resemble standard.
* = Indicates concentration of analyte in sample prior to silica gel cleanup. Post cleanup concentration is also reported.
(1) 8015B indicates total petroleum hydrocarbons by USEPA Method 8015B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 2: SOIL CHEMICAL TEST RESULTS – TOTAL PETROLEUM HYDROCARBONS
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP5-S2	WP5-S2	WP5-S2	WP5-S2	WP5-S2	WP5-S3	WP5-S3	WP5-S3	WP5-S3
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021
DEPTH (2)	5.0	10.0	15.0	20.0	25.0	5.0	10.0	15.0	20.0
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Gasoline C7-C12	<0.94	--	<1.0	--	<1.0	**3.4 Y**	--	**53 Y**	--
Diesel C10-C24	**2.5 Y**	**1.3 Y**	**1.5 Y**	<1.0	<1.0	**6900**	**1700**	**2100**	**2100**
Motor Oil C24-C36	<5.0	<5.0	<5.0	<5.0	<5.0	**4100**	**1100**	**1300**	**1300**

Notes:
mg/kg = millograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
Y= Sample exhibits chromatographic pattern which does not resemble standard.
* = Indicates concentration of analyte in sample prior to silica gel cleanup. Post cleanup concentration is also reported.
(1) 8015B indicates total petroleum hydrocarbons by USEPA Method 8015B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 2: SOIL CHEMICAL TEST RESULTS – TOTAL PETROLEUM HYDROCARBONS
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP5-S3	WP5-S4	WP5-S4	WP5-S4	WP5-S4	WP5-S4	WP5-S5	WP5-S5	WP5-S5
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021
DEPTH (2)	25.0	5.0	10.0	15.0	20.0	25.0	5.0	10.0	15.0
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Gasoline C7-C12	**92 Y**	<1.1	--	<1.0	--	<0.97	<1.1	--	<0.92
Diesel C10-C24	**3800**	**1.0 Y**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Motor Oil C24-C36	**2100**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Notes:
mg/kg = millograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
Y= Sample exhibits chromatographic pattern which does not resemble standard.
* = Indicates concentration of analyte in sample prior to silica gel cleanup. Post cleanup concentration is also reported.
(1) 8015B indicates total petroleum hydrocarbons by USEPA Method 8015B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 2: SOIL CHEMICAL TEST RESULTS – TOTAL PETROLEUM HYDROCARBONS
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP5-S5	WP5-S5	WP5-S6	WP5-S6	WP5-S6	WP5-S6	WP5-S6	WP5-S7	WP5-S7
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021
DEPTH (2)	20.0	25.0	5.0	10.0	15.0	20.0	25.0	5.0	10.0
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Gasoline C7-C12	--	<0.93	<0.96	--	<1.0	--	<1.0	<0.96	--
Diesel C10-C24	**1.0 Y**	<1.0	<1.0	<1.0	<1.0	**1.2 Y**	<0.99	<1.0	**2.3 Y**
Motor Oil C24-C36	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Notes:
mg/kg = millograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
Y= Sample exhibits chromatographic pattern which does not resemble standard.
* = Indicates concentration of analyte in sample prior to silica gel cleanup. Post cleanup concentration is also reported.
(1) 8015B indicates total petroleum hydrocarbons by USEPA Method 8015B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 2: SOIL CHEMICAL TEST RESULTS – TOTAL PETROLEUM HYDROCARBONS
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP5-S7	WP5-S7	WP5-S7	WP5-S8	WP5-S8	WP5-S8	WP5-S8	WP5-S8
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021	8015/8021
DEPTH (2)	15.0	20.0	25.0	5.0	10.0	15.0	20.0	25.0
UNITS	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Gasoline C7-C12	<0.94	--	**29 Y**	<0.96	--	<1.0	--	<1.0
Diesel C10-C24	<1.0	<1.0	**2900**	<1.0	**1.0 Y**	<1.0	<1.0	**840**
Motor Oil C24-C36	<5.0	<5.0	**1300**	<5.0	<5.0	<5.0	<5.0	**490**

Notes:
mg/kg = millograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
Y= Sample exhibits chromatographic pattern which does not resemble standard.
* = Indicates concentration of analyte in sample prior to silica gel cleanup. Post cleanup concentration is also reported.
(1) 8015B indicates total petroleum hydrocarbons by USEPA Method 8015B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 3: SOIL CHEMICAL TEST RESULTS – BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP3-S1	WP3-S1	WP3-S2	WP3-S2	WP5-S1	WP5-S1	WP5-S1	WP5-S1	WP5-S1
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8021	8021	8021	8021	8021	8021	8021	8021	8021
DEPTH (2)	3.0	5.0	3.0	5.0	3.0	5.0	15.0	20.0	25.0
UNITS	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Benzene	--	<4.8	--	<5.3	--	<5.4	<5.0	--	<100
Toluene	--	<4.8	--	<5.3	--	<5.4	<5.0	--	<100
Ethylbenzene	--	<4.8	--	<5.3	--	<5.4	<5.0	--	<100
m,p-Xylenes	--	<4.8	--	<5.3	--	<5.4	<5.0	--	<100
o-Xylene	--	<4.8	--	<5.3	--	<5.4	<5.0	--	**640 C**

Notes:
µg/kg = micrograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
C = Presence confirmed, but RPD column exceeds 40%. Concentration reported represents maximum possible value but may be biased high do to co-eluting with diesel.
(1) 8021B indicates BTEX by USEPA Method 8021B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 3: SOIL CHEMICAL TEST RESULTS – BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP5-S2	WP5-S2	WP5-S2	WP5-S2	WP5-S2	WP5-S3	WP5-S3	WP5-S3	WP5-S3
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8021	8021	8021	8021	8021	8021	8021	8021	8021
DEPTH (2)	5.0	10.0	15.0	20.0	25.0	5.0	10.0	15.0	20.0
UNITS	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Benzene	<5.2	--	<5.1	--	<4.7	<4.6	--	<4.9	--
Toluene	<5.2	--	<5.1	--	<4.7	<4.6	--	<4.9	--
Ethylbenzene	<5.2	--	<5.1	--	<4.7	<4.6	--	**120 C**	--
m,p-Xylenes	<5.2	--	<5.1	--	<4.7	<4.6	--	<4.9	--
o-Xylene	<5.2	--	<5.1	--	<4.7	<4.6	--	**60 C**	--

Notes:
µg/kg = micrograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
C = Presence confirmed, but RPD column exceeds 40%. Concentration reported represents maximum possible value but may be biased high do to co-eluting with diesel.
(1) 8021B indicates BTEX by USEPA Method 8021B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 3: SOIL CHEMICAL TEST RESULTS – BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP5-S3	WP5-S4	WP5-S4	WP5-S4	WP5-S4	WP5-S4	WP5-S5	WP5-S5	WP5-S5
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8021	8021	8021	8021	8021	8021	8021	8021	8021
DEPTH (2)	25.0	5.0	10.0	15.0	20.0	25.0	5.0	10.0	15.0
UNITS	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Benzene	<100	<5.4	--	<5.1	--	<4.9	<5.3	--	<4.6
Toluene	<100	<5.4	--	<5.1	--	<4.9	<5.3	--	<4.6
Ethylbenzene	<100	<5.4	--	<5.1	--	<4.9	<5.3	--	<4.6
m,p-Xylenes	<100	<5.4	--	<5.1	--	<4.9	<5.3	--	<4.6
o-Xylene	**270 C**	<5.4	--	<5.1	--	<4.9	<5.3	--	<4.6

Notes:
µg/kg = micrograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
C = Presence confirmed, but RPD column exceeds 40%. Concentration reported represents maximum possible value but may be biased high do to co-eluting with diesel.
(1) 8021B indicates BTEX by USEPA Method 8021B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 3: SOIL CHEMICAL TEST RESULTS – BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP5-S5	WP5-S5	WP5-S6	WP5-S6	WP5-S6	WP5-S6	WP5-S6	WP5-S7	WP5-S7
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8021	8021	8021	8021	8021	8021	8021	8021	8021
DEPTH (2)	20.0	25.0	5.0	10.0	15.0	20.0	25.0	5.0	10.0
UNITS	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Benzene	--	<4.7	<4.8	--	<5.1	--	<5.2	<4.8	--
Toluene	--	<4.7	<4.8	--	<5.1	--	<5.2	<4.8	--
Ethylbenzene	--	<4.7	<4.8	--	<5.1	--	<5.2	<4.8	--
m,p-Xylenes	--	<4.7	<4.8	--	<5.1	--	<5.2	<4.8	--
o-Xylene	--	<4.7	<4.8	--	<5.1	--	<5.2	<4.8	--

Notes:
µg/kg = micrograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
C = Presence confirmed, but RPD column exceeds 40%. Concentration reported represents maximum possible value but may be biased high do to co-eluting with diesel.
(1) 8021B indicates BTEX by USEPA Method 8021B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 3: SOIL CHEMICAL TEST RESULTS – BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP5-S7	WP5-S7	WP5-S7	WP5-S8	WP5-S8	WP5-S8	WP5-S8	WP5-S8
DATE	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09	2/18/09
MATRIX	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
METHOD (1)	8021	8021	8021	8021	8021	8021	8021	8021
DEPTH (2)	15.0	20.0	25.0	5.0	10.0	15.0	20.0	25.0
UNITS	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg
Benzene	<4.7	--	<50	<4.8	--	<5.2	--	<5.2
Toluene	<4.7	--	<50	<4.8	--	<5.2	--	<5.2
Ethylbenzene	<4.7	--	<50	<4.8	--	<5.2	--	<5.2
m,p-Xylenes	<4.7	--	<50	<4.8	--	<5.2	--	<5.2
o-Xylene	<4.7	--	<50	<4.8	--	<5.2	--	<5.2

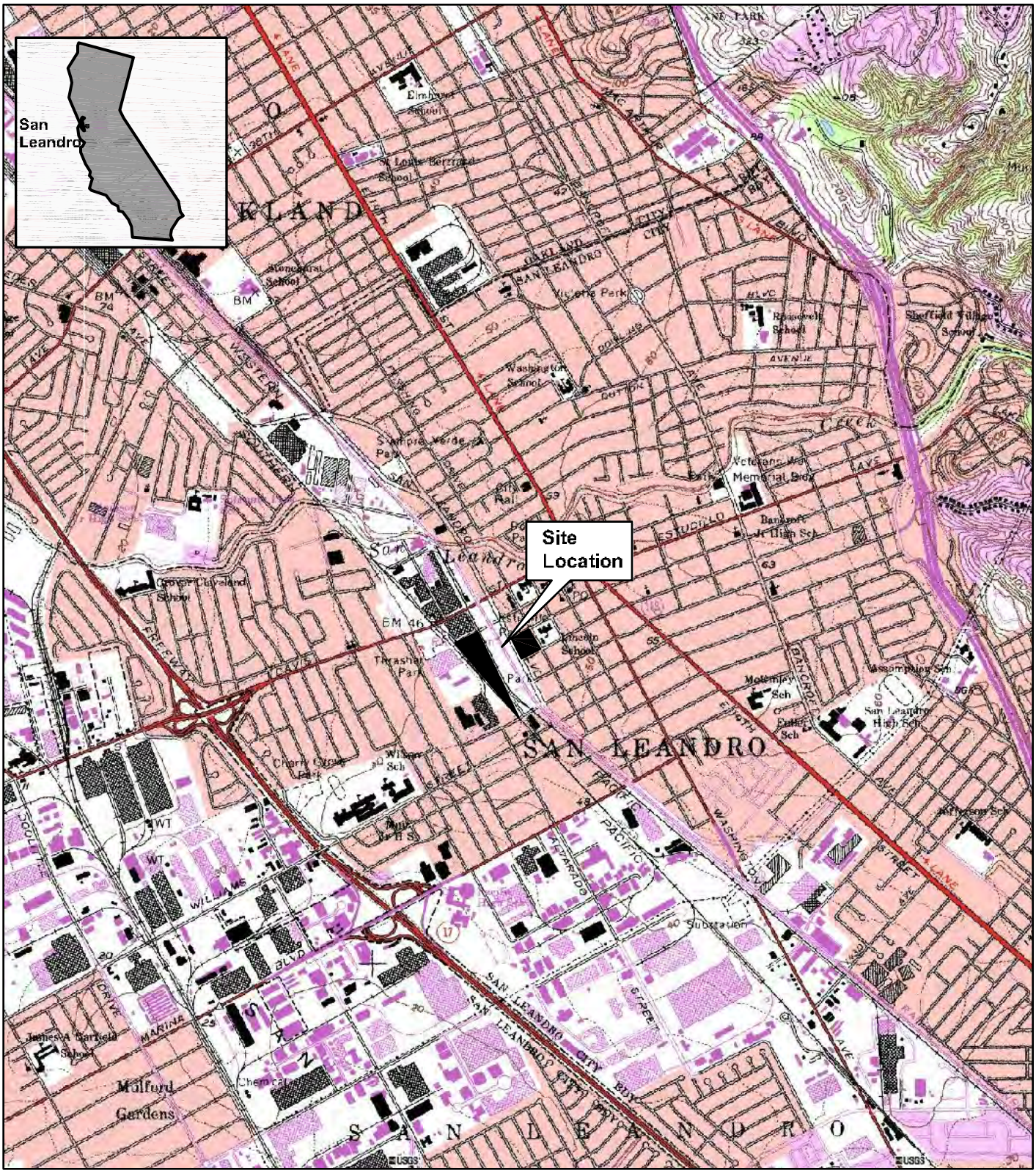
Notes:
µg/kg = micrograms per kilogram.
-- = Sample not analyzed for constituent indicated.
< = Analyte was not detected at a level above the noted detection limit.
C = Presence confirmed, but RPD column exceeds 40%. Concentration reported represents maximum possible value but may be biased high do to co-eluting with diesel.
(1) 8021B indicates BTEX by USEPA Method 8021B.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.

TABLE 4: SOIL CHEMICAL TEST RESULTS – POLYNUCLEAR AROMATIC HYDROCARBONS
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

DRAFT

SAMPLE ID	WP5-S1	WP5-S1
DATE	2/18/09	12/8/08
MATRIX	Soil	Soil
METHOD (1)	8270C	8270C
DEPTH (2)	3.0	5.0
UNITS	µg/kg	µg/kg
2-Methylnaphthalene	<25	<50
Acenaphthene	<25	**560**
Acenaphthylene	<25	<50
Anthracene	<25	<50
Benzo(a)anthracene	<25	**120**
Benzo(a)pyrene	<25	<50
Benzo(b)fluoranthene	<25	<50
Benzo(g,h,i)perylene	<25	<50
Benzo(k)fluoranthene	<25	<50
Chrysene	**38**	**370**
Dibenz(a,h)anthracene	<25	<50
Fluoranthene	<25	**210**
Fluorene	<25	**2200**
Indeno(1,2,3-cd)pyrene	<25	<50
Naphthalene	<25	<50
Phenanthrene	<25	<50
Pyrene	<25	**240**

Notes:
µg/kg = micrograms per kilogram.
< = Analyte was not detected at a level above the noted detection limit.
(1) 8270C indicates semiovolatile organics by USEPA 8270C-SIM low level.
(2) Sample collected in a 6-inch interval beginning at the depth noted in feet below ground surface.



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1438 Webster Street, Suite 302
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Site Vicinity Map
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

Figure
1

Drafter: EC | Date: 12/30/08 | Contract Number: 08-616-B

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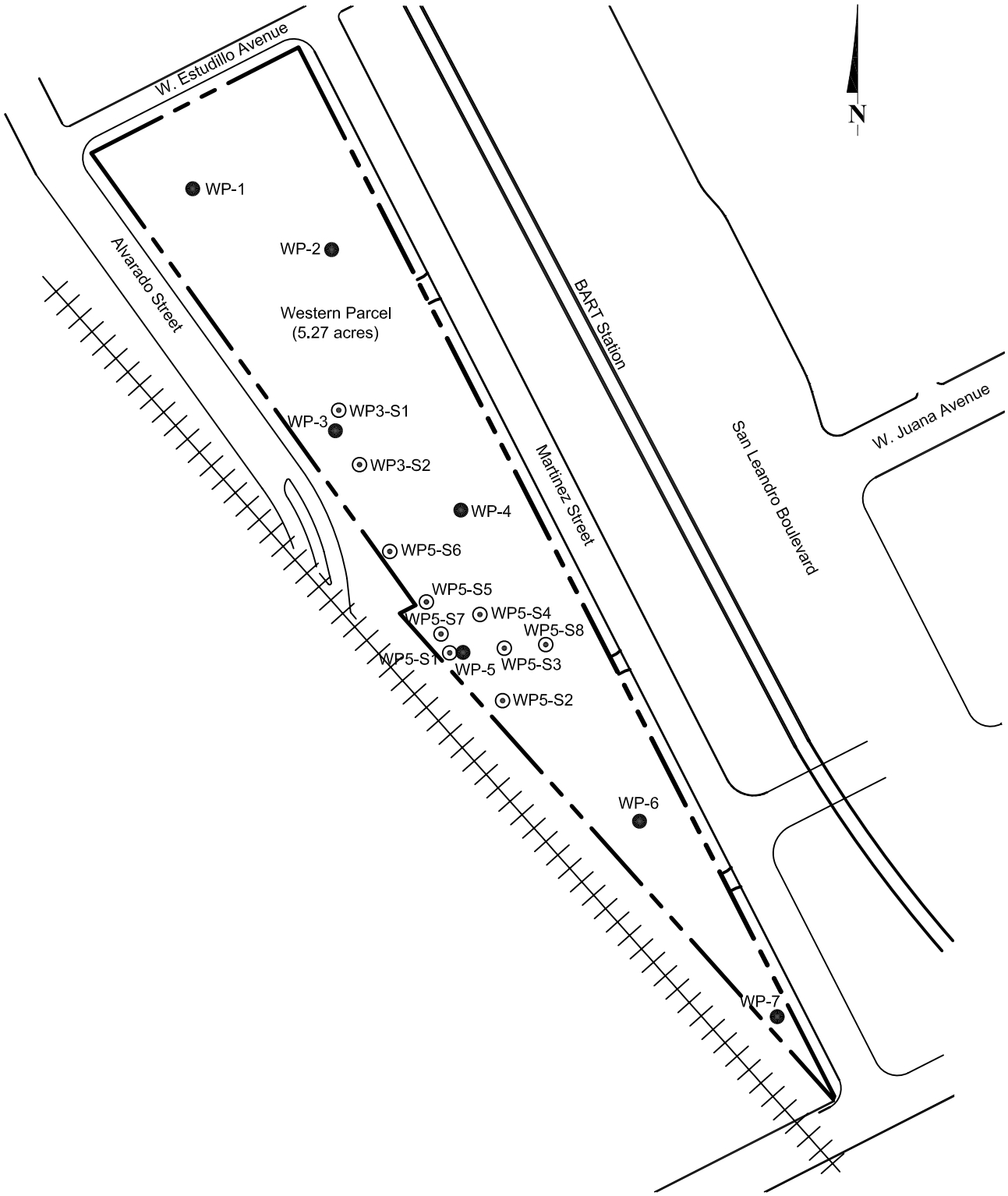

EXPLANATION

- Step-out sample locations
- December 2008 sample locations

0 180

SCALE IN FEET
(APPROXIMATE)

Map Source: Development plans are based on the Master Plan provided by Keystone Development Group, LLC

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Step-Out Sample Locations
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

Figure
2

Drafter: EC | Date: 02/20/09 | Contract Number: 08-616-B

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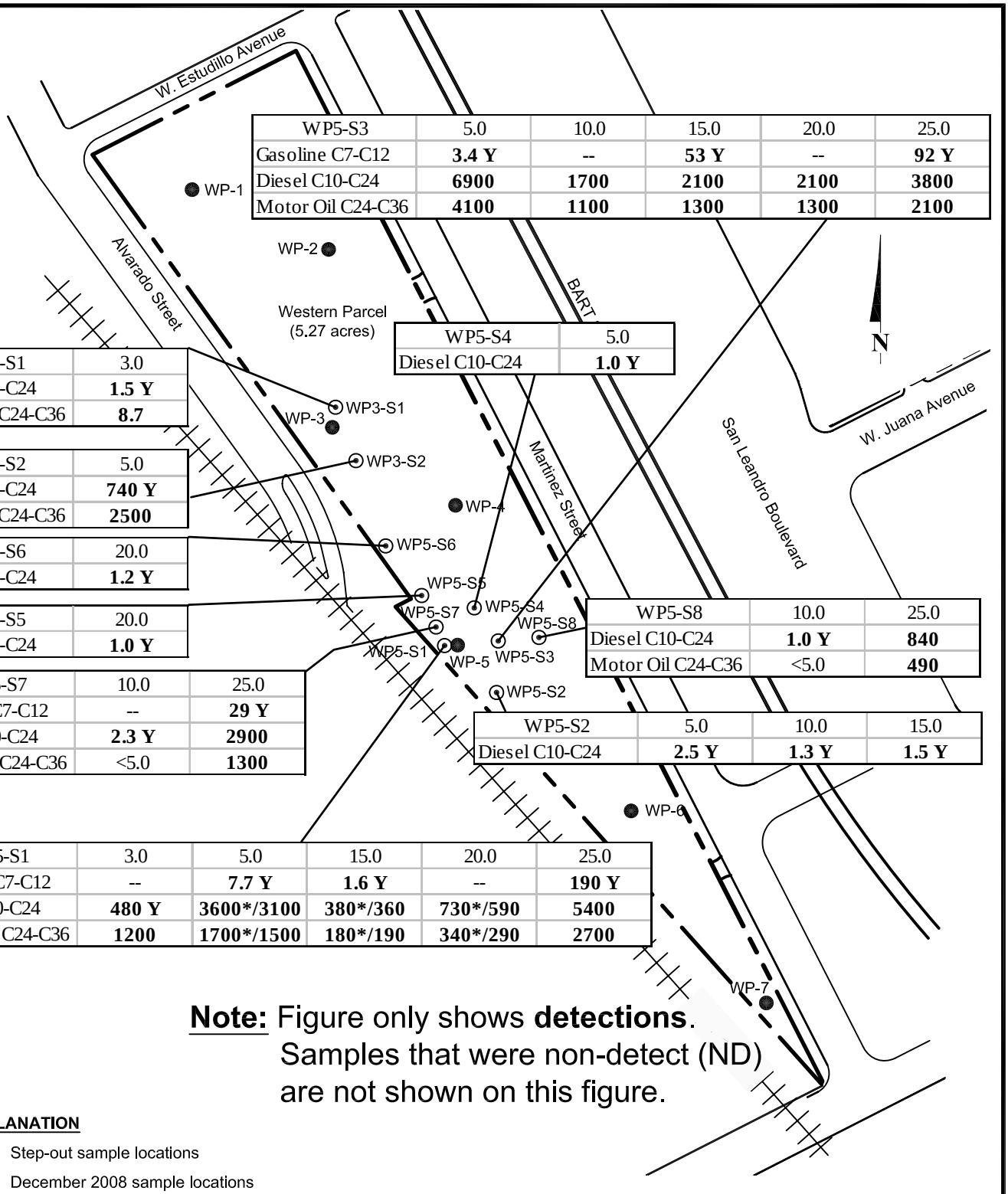

WP5-S3	5.0	10.0	15.0	20.0	25.0
Gasoline C7-C12	**3.4 Y**	--	**53 Y**	--	**92 Y**
Diesel C10-C24	**6900**	**1700**	**2100**	**2100**	**3800**
Motor Oil C24-C36	**4100**	**1100**	**1300**	**1300**	**2100**

WP5-S4	5.0
Diesel C10-C24	**1.0 Y**

WP3-S1	3.0
Diesel C10-C24	**1.5 Y**
Motor Oil C24-C36	**8.7**

WP3-S2	5.0
Diesel C10-C24	**740 Y**
Motor Oil C24-C36	**2500**

WP5-S6	20.0
Diesel C10-C24	**1.2 Y**

WP5-S5	20.0
Diesel C10-C24	**1.0 Y**

WP5-S7	10.0	25.0
Gasoline C7-C12	--	**29 Y**
Diesel C10-C24	**2.3 Y**	**2900**
Motor Oil C24-C36	<5.0	**1300**

WP5-S8	10.0	25.0
Diesel C10-C24	**1.0 Y**	**840**
Motor Oil C24-C36	<5.0	**490**

WP5-S2	5.0	10.0	15.0
Diesel C10-C24	**2.5 Y**	**1.3 Y**	**1.5 Y**

WP5-S1	3.0	5.0	15.0	20.0	25.0
Gasoline C7-C12	--	**7.7 Y**	**1.6 Y**	--	**190 Y**
Diesel C10-C24	**480 Y**	**3600*/3100**	**380*/360**	**730*/590**	**5400**
Motor Oil C24-C36	**1200**	**1700*/1500**	**180*/190**	**340*/290**	**2700**

Note: Figure only shows **detections**. Samples that were non-detect (ND) are not shown on this figure.

EXPLANATION

- ⊙ Step-out sample locations
- ● December 2008 sample locations
- * Indicates concentration before silica gel cleanup
- -- Indicates sample not analyzed
- Y Indicates sample exhibits chromotographic pattern which does not resemble standard

Concentrations presented in mg/kg

Highlight = Exceeds applicable ESL

Sample designation

Feet below ground surface

WP5-S8	10.0	25.0
Diesel C10-C24	**1.0 Y**	**840**

0 180

SCALE IN FEET (APPROXIMATE)

Map Source: Development plans are based on the Master Plan provided by Keystone Development Group, LLC

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Total Petroleum Hydrocarbons Detected in Soil
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

Figure **3**

Drafter: EC | Date: 03/24/09 | Contract Number: 08-616-B

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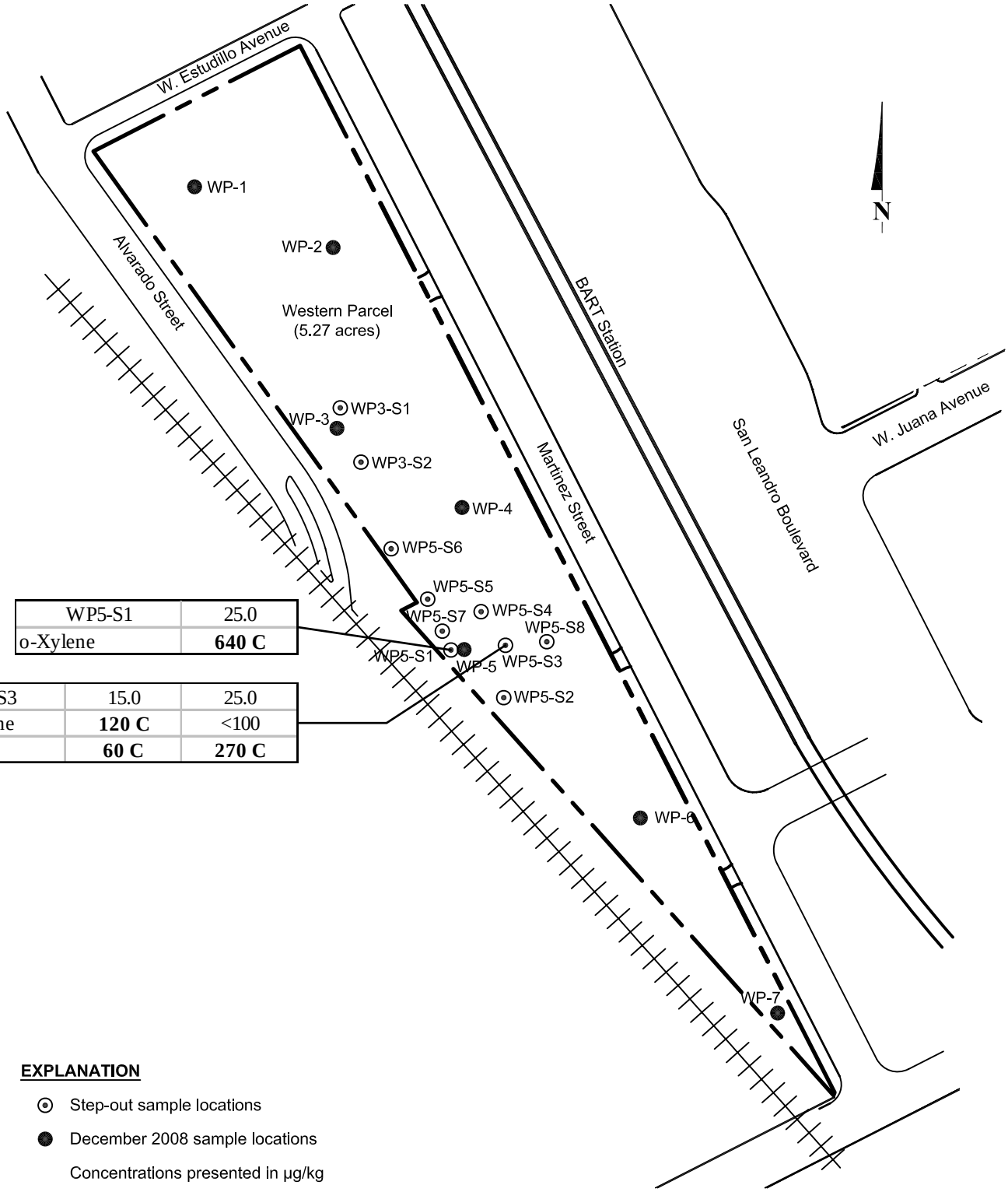

WP5-S1	25.0
o-Xylene	**640 C**

WP5-S3	15.0	25.0
Ethylbenzene	**120 C**	<100
o-Xylene	**60 C**	**270 C**

EXPLANATION

⊙ Step-out sample locations

● December 2008 sample locations

Concentrations presented in µg/kg

C Indicates presence confirmed but RPD column exceeds 40%

Sample designation

Feet below ground surface

WP5-S1	25.0
o-Xylene	**640 C**

0 180

SCALE IN FEET
(APPROXIMATE)

Map Source: Development plans are based on the Master Plan provided by Keystone Development Group, LLC

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Benzene, Toluene, Ethylbenzene and Xylenes Detected in Soil
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

Figure
4

Drafter: EC | Date: 03/24/09 | Contract Number: 08-616-B

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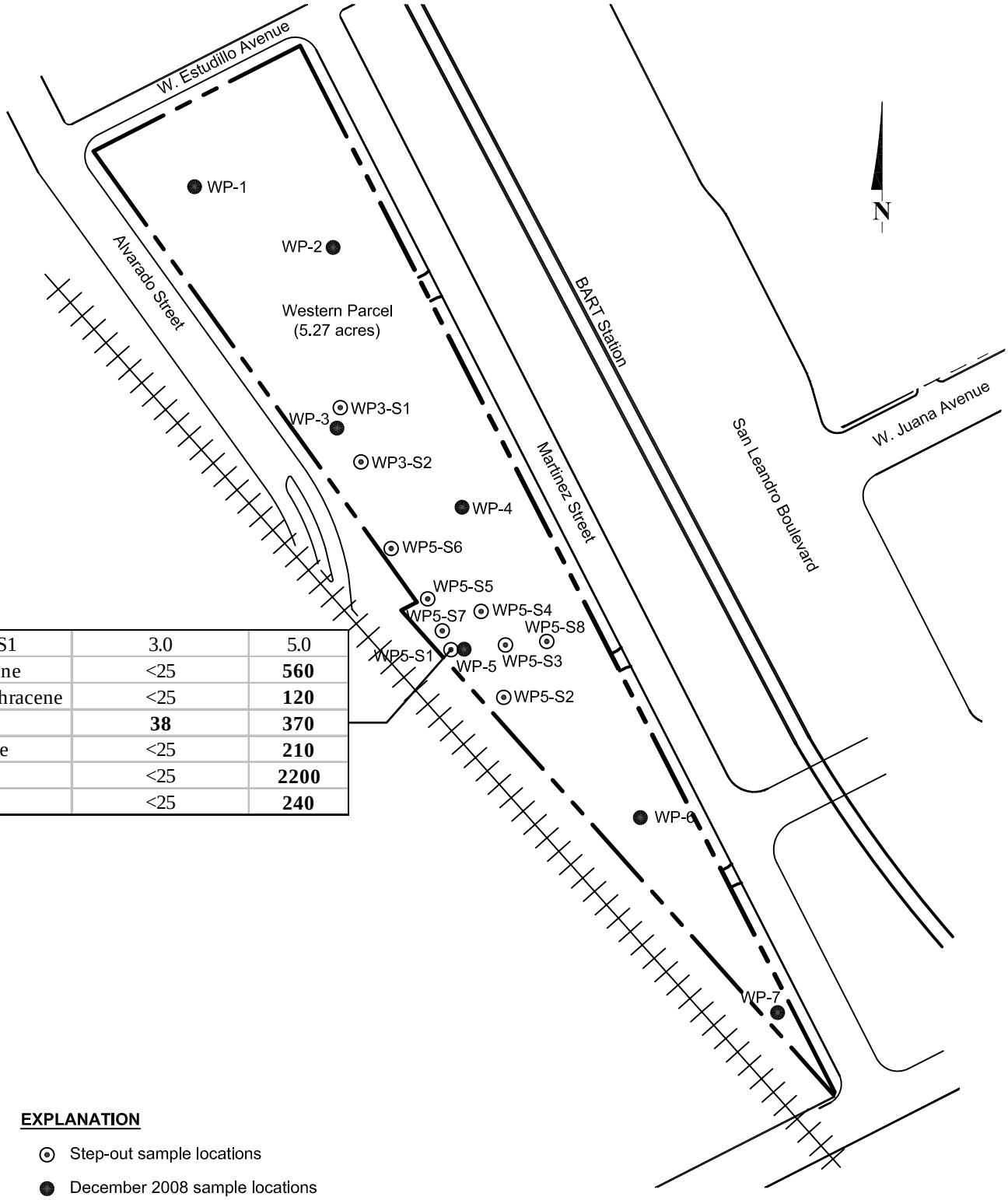

WP5-S1	3.0	5.0
Acenaphthene	<25	**560**
Benzo(a)anthracene	<25	**120**
Chrysene	**38**	**370**
Fluoranthene	<25	**210**
Fluorene	<25	**2200**
Pyrene	<25	**240**

EXPLANATION

⊙ Step-out sample locations

● December 2008 sample locations

Concentrations presented in µg/kg

Sample designation

Feet below ground surface

WP5-S1	3.0
Chrysene	**38**

0 180

SCALE IN FEET
(APPROXIMATE)

Map Source: Development plans are based on the Master Plan provided by Keystone Development Group, LLC

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Polynuclear Aromatic Hydrocarbons Detected in Soil
BUILD San Leandro Crossing (Western Parcel)
San Leandro, California

Figure
5

Drafter: EC | Date: 03/24/09 | Contract Number: 08-616-B

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Appendix A

Soil Boring Logs

Iris Environmental
1438 Webster Street, Suite 302
Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S1

PROJECT NAME San Leandro Crossings
CLIENT BUILD San Leandro
PROJECT NUMBER 08-616-B
PROJECT LOCATION San Leandro, California
DATE STARTED 2/18/09 **COMPLETED** 2/18/09
DRILL RIG GeoProbe **HOLE DIAM.** 2 inches
DRILLING CONTRACTOR RSI
SAMPLER TYPE Macro-Core **TOTAL DEPTH** 26.0 ft
DRILLING METHOD Direct Push
GW DEPTH DURING DRILLING 24.5 ft
LOGGED BY Jeff Schmidt **CHECKED BY**
BOREHOLE BACKFILL Cement-Grout
NOTES

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY	SAMPLES: RETAINED	SAMPLE NUMBER	TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
0								CLAYEY SAND (SC): dark reddish brown (5YR 3/2); damp; firm; very fine-grained sand (0% gravel, 60% sand, 40% clay).	
								SANDY CLAY (CL): dark greenish gray (Gley 1 3/1); dry to moist; soft to medium stiff; TPH staining and odor (0, 30, 70).	
				WP5-S1-3.0	0900				
5				WP5-S1-5.0	0905	17.3			
10									
									Backfilled with cement-grout
15				WP5-S1-15.0	0910				
						1.7		Becomes very stiff; increased fines to (0, 20, 80).	
20				WP5-S1-20.0	0915	16.7			
								CLAYEY SAND WITH GRAVEL (SC): dark greenish gray (Gley 1 3/1); wet; medium dense; TPH staining and odor (20, 45, 35).	
25						7.8			

(Continued Next Page)

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WELL NUMBER WP5-S1

PROJECT NAME San Leandro Crossings **CLIENT** BUILD San Leandro

PROJECT NUMBER 08-616-B **PROJECT LOCATION** San Leandro, California

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
25								
	↓		WP5-S1-25.0	0920				

Bottom of Borehole at 26 feet.

Iris Environmental
1438 Webster Street, Suite 302
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Telephone: (510) 834-4747

WELL NUMBER WP5-S2

PROJECT NAME San Leandro Crossings
CLIENT BUILD San Leandro
PROJECT NUMBER 08-616-B
PROJECT LOCATION San Leandro, California
DATE STARTED 2/18/09 **COMPLETED** 2/18/09
DRILL RIG GeoProbe **HOLE DIAM.** 2 inches
DRILLING CONTRACTOR RSI
SAMPLER TYPE Macro-Core **TOTAL DEPTH** 26.0 ft
DRILLING METHOD Direct Push
GW DEPTH DURING DRILLING 24.0 ft
LOGGED BY Jeff Schmidt **CHECKED BY**
BOREHOLE BACKFILL Cement-Grout
NOTES

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
0							GRAVELLY SAND WITH CLAY (SC): reddish brown (7.5YR 6/8); dry; loose; poorly graded sand; angular gravel to 1/2-inch diameter; occasional brick and concrete fragments (30% gravel, 50% sand, 20% clay).	
							SANDY CLAY (CL): reddish brown (5YR 4/3); dry to moist; soft to medium stiff (0, 30, 70).	
5			WP5-S2-5.0	1120	0.3			
10			WP5-S2-10.0	1125	0.3			
15			WP5-S2-15.0	1130	0.3			Backfilled with cement-grout
							Becomes very stiff; increased fines to (0, 20, 80).	
20			WP5-S2-20.0	1135	0.3			
							CLAYEY SAND WITH GRAVEL(SC): reddish brown (5YR 4/3); wet; medium dense (20, 50, 30).	
25					0.3			

ENVR DIRECT PUSH - IRIS SEPT08.GDT - 3/26/09 10:23 - I:\CAD\08\08-616-B\BORING LOGS.GPJ

(Continued Next Page)

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WELL NUMBER WP5-S2

PROJECT NAME San Leandro Crossings **CLIENT** BUILD San Leandro

PROJECT NUMBER 08-616-B **PROJECT LOCATION** San Leandro, California

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY	SAMPLES: RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
25	↓			WP5-S2-25.0	1140				

Bottom of Borehole at 26 feet.

Iris Environmental
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Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S3

PROJECT NAME San Leandro Crossings
CLIENT BUILD San Leandro
PROJECT NUMBER 08-616-B
PROJECT LOCATION San Leandro, California
DATE STARTED 2/18/09 **COMPLETED** 2/18/09
DRILL RIG GeoProbe **HOLE DIAM.** 2 inches
DRILLING CONTRACTOR RSI
SAMPLER TYPE Macro-Core **TOTAL DEPTH** 26.0 ft
DRILLING METHOD Direct Push
GW DEPTH DURING DRILLING 24.5 ft
LOGGED BY Jeff Schmidt **CHECKED BY**
BOREHOLE BACKFILL Cement-Grout
NOTES

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
0							GRAVELLY SAND WITH CLAY (SC): reddish brown (7.5YR 6/8); dry; loose; poorly graded sand; angular gravel to 1/2-inch diameter; occasional brick and concrete fragments (30% gravel, 50% sand, 20% clay).	
							SANDY CLAY (CL): reddish brown (5YR 4/3); dry to moist; soft to medium stiff (0, 30, 70).	
5			WP5-S3-5.0	1035	23.9		Becomes dark greenish gray (Gley 1 3/1); TPH stained with odor.	
							Mottled with free product (TPH).	
10			WP5-S3-10.0	1040	22.2			
15			WP5-S3-15.0	1045	12.2			Backfilled with cement-grout
20			WP5-S3-20.0	1050				
					38.4		CLAYEY SAND WITH GRAVEL (SC): dark greenish gray (Gley 1 3/1); wet; medium dense; TPH staining and odor (15, 50, 35).	
25								

ENVR DIRECT PUSH - IRIS SEPT08.GDT - 3/26/09 10:23 - I:\CAD\08\08-616-B\BORING LOGS.GPJ

(Continued Next Page)

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Telephone: (510) 834-4747

WELL NUMBER WP5-S3

PROJECT NAME San Leandro Crossings **CLIENT** BUILD San Leandro

PROJECT NUMBER 08-616-B **PROJECT LOCATION** San Leandro, California

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
25								
	↓		WP5-S3-25.0	1055				

Bottom of Borehole at 26 feet.

ENVR DIRECT PUSH - IRIS SEPT08.GDT - 3/26/09 10:23 - I:\CAD\08\08-616-B\BORING LOGS.GPJ

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Telephone: (510) 834-4747

WELL NUMBER WP5-S4

PROJECT NAME San Leandro Crossings
CLIENT BUILD San Leandro
PROJECT NUMBER 08-616-B
PROJECT LOCATION San Leandro, California
DATE STARTED 2/18/09 **COMPLETED** 2/18/09
DRILL RIG GeoProbe **HOLE DIAM.** 2 inches
DRILLING CONTRACTOR RSI
SAMPLER TYPE Macro-Core **TOTAL DEPTH** 26.0 ft
DRILLING METHOD Direct Push
GW DEPTH DURING DRILLING 25.3 ft
LOGGED BY Jeff Schmidt **CHECKED BY**
BOREHOLE BACKFILL Cement-Grout
NOTES

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
0							CLAYEY SAND (SC): dark reddish brown (5YR 3/2); damp; firm; very fine-grained sand (0% gravel, 60% sand, 40% clay).	
5			WP5-S4-5.0	0825			SANDY CLAY (CL): reddish brown (5YR 4/3); dry to moist; soft to medium stiff (0, 30, 70).	
10			WP5-S4-10.0	0830				
15			WP5-S4-15.0	0835				Backfilled with cement-grout
					0.0		SAND (SP) lens: light TPH staining (0, 85, 15).	
20			WP5-S4-20.0	0840			CLAYEY SAND WITH GRAVEL (SC): greenish gray (Gley 1 6/1); wet; medium dense (15, 50, 35).	
25					0.1			

ENVR DIRECT PUSH - IRIS SEPT08.GDT - 3/26/09 10:24 - I:\CAD\08\08-616-B\BORING LOGS.GPJ

(Continued Next Page)

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Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S4

PROJECT NAME San Leandro Crossings **CLIENT** BUILD San Leandro

PROJECT NUMBER 08-616-B **PROJECT LOCATION** San Leandro, California

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY	SAMPLES: RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
25									
	↓		■	WP5-S4-25.0	0845			∇	

Bottom of Borehole at 26 feet.

Iris Environmental
1438 Webster Street, Suite 302
Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S5

PROJECT NAME San Leandro Crossings
CLIENT BUILD San Leandro
PROJECT NUMBER 08-616-B
PROJECT LOCATION San Leandro, California
DATE STARTED 2/18/09 **COMPLETED** 2/18/09
DRILL RIG GeoProbe **HOLE DIAM.** 2 inches
DRILLING CONTRACTOR RSI
SAMPLER TYPE Macro-Core **TOTAL DEPTH** 26.0 ft
DRILLING METHOD Direct Push
GW DEPTH DURING DRILLING 24.0 ft
LOGGED BY Jeff Schmidt **CHECKED BY**
BOREHOLE BACKFILL Cement-Grout
NOTES

DEPTH (FEET)	SAMPLES: DRIVE / RECOVERY / RETAINED	SAMPLE NUMBER	TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
0						GRAVELLY SAND WITH CLAY (SC): reddish brown (7.5YR 6/8); dry; loose; poorly graded sand; angular gravel with occasional brick and concrete fragments (30% gravel, 50% sand, 20% clay).	
						SANDY CLAY (CL): reddish brown (5YR 4/3); dry to moist; soft to medium stiff (0, 30, 70).	
5		WP5-S4-5.0	0950	0.1			
10		WP5-S4-10.0	0955	0.1			
15		WP5-S4-15.0	1000	0.1			Backfilled with cement-grout
						Becomes very stiff; increased fine to (0, 20, 80).	
20		WP5-S4-20.0	1005	0.1			
						CLAYEY SAND WITH GRAVEL (SC): reddish brown (5YR 4/3); wet; medium dense (20, 50, 30).	
25				0.1			

ENVR DIRECT PUSH - IRIS SEPT08.GDT - 3/26/09 10:24 - I:\CAD\08\08-616-B\BORING LOGS.GPJ

(Continued Next Page)

Iris Environmental
1438 Webster Street, Suite 302
Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S5

PROJECT NAME San Leandro Crossings **CLIENT** BUILD San Leandro

PROJECT NUMBER 08-616-B **PROJECT LOCATION** San Leandro, California

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY	SAMPLES: RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
25									
	↓			WP5-S4-25.0	1010				

Bottom of Borehole at 26 feet.

Iris Environmental
1438 Webster Street, Suite 302
Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S6

PROJECT NAME San Leandro Crossings
CLIENT BUILD San Leandro
PROJECT NUMBER 08-616-B
PROJECT LOCATION San Leandro, California
DATE STARTED 2/18/09 **COMPLETED** 2/18/09
DRILL RIG GeoProbe **HOLE DIAM.** 2 inches
DRILLING CONTRACTOR RSI
SAMPLER TYPE Macro-Core **TOTAL DEPTH** 26.0 ft
DRILLING METHOD Direct Push
GW DEPTH DURING DRILLING 24.3 ft
LOGGED BY Jeff Schmidt **CHECKED BY**
BOREHOLE BACKFILL Cement-Grout
NOTES

DEPTH (FEET)	SAMPLES: DRIVE / RECOVERY / RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
0						CLAYEY SAND (SC): reddish brown (5YR 3/2); damp; medium stiff (0% gravel, 60% sand, 40% clay).	
5		WP5-S6-5.0	0740			SANDY CLAY (CL): reddish brown (5YR 4/3); dry to moist; soft to medium stiff (0, 30, 70).	
10		WP5-S6-10.0	0745	0.0			
15		WP5-S6-15.0	0750				Backfilled with cement-grout
						Becomes very stiff; increased fine to (0, 20, 80).	
20		WP5-S6-20.0	0755	0.0			
						Decreasing fines to (0, 40, 60). TPH staining (greenish gray) begins and increases with depth.	
25				0.1			

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Iris Environmental
1438 Webster Street, Suite 302
Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S6

PROJECT NAME San Leandro Crossings **CLIENT** BUILD San Leandro

PROJECT NUMBER 08-616-B **PROJECT LOCATION** San Leandro, California

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY	SAMPLES: RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
25									
	↓			WP5-S6-25.0	0800				

Bottom of Borehole at 26 feet.

Iris Environmental
1438 Webster Street, Suite 302
Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S7

PROJECT NAME San Leandro Crossings
CLIENT BUILD San Leandro
PROJECT NUMBER 08-616-B
PROJECT LOCATION San Leandro, California
DATE STARTED 2/18/09 **COMPLETED** 2/18/09
DRILL RIG GeoProbe **HOLE DIAM.** 2 inches
DRILLING CONTRACTOR RSI
SAMPLER TYPE Macro-Core **TOTAL DEPTH** 26.0 ft
DRILLING METHOD Direct Push
GW DEPTH DURING DRILLING ---
LOGGED BY Jeff Schmidt **CHECKED BY**
BOREHOLE BACKFILL Cement-Grout
NOTES

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
0							CLAYEY SAND (SC): dark reddish brown (5YR 3/2); damp; firm; very fine-grained sand (0% gravel, 60% sand, 40% clay).	
							SANDY CLAY (CL): reddish brown (5YR 4/3); dry to moist; soft to medium stiff (0, 30, 70).	
5			WP5-S7-5.0	1205	0.0			
10			WP5-S7-10.0	1210	0.0		Increased sand to (0, 45, 55).	
							Slight TPH staining begins.	Backfilled with cement-grout
							Increasing fines.	
15			WP5-S7-15.0	1215				
					8.1		Increasing TPH staining and odor.	
							Becomes very stiff; increased fines to (0, 20, 80).	
20			WP5-S7-20.0	1220	1.2			
							CLAYEY SAND WITH GRAVEL (SC): dark greenish gray (Gley 1 3/1); wet; medium dense; strong TPH odor and staining (15, 70, 15).	
25					39.2			

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Iris Environmental
1438 Webster Street, Suite 302
Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S7

PROJECT NAME San Leandro Crossings **CLIENT** BUILD San Leandro

PROJECT NUMBER 08-616-B **PROJECT LOCATION** San Leandro, California

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY	SAMPLES: RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
25									
	↓			WP5-S7-25.0	1225				

Bottom of Borehole at 26 feet.

Iris Environmental
1438 Webster Street, Suite 302
Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S8

PROJECT NAME San Leandro Crossings
CLIENT BUILD San Leandro
PROJECT NUMBER 08-616-B
PROJECT LOCATION San Leandro, California
DATE STARTED 2/18/09 **COMPLETED** 2/18/09
DRILL RIG GeoProbe **HOLE DIAM.** 2 inches
DRILLING CONTRACTOR RSI
SAMPLER TYPE Macro-Core **TOTAL DEPTH** 26.0 ft
DRILLING METHOD Direct Push
GW DEPTH DURING DRILLING 23.7 ft
LOGGED BY Jeff Schmidt **CHECKED BY**
BOREHOLE BACKFILL Cement-Grout
NOTES

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
0							Hand augered to 5 feet.	
5			WP5-S8-5.0	1245			SANDY CLAY (CL): reddish brown (5YR 4/3); dry to moist; soft to medium stiff (0% gravel, 30% sand, 70% clay).	
10			WP5-S8-10.0	1250				
15			WP5-S8-15.0	1255	0.3		Slight TPH staining begins.	Backfilled with cement-grout
							Decreased TPH staining; increased fines to (0, 20, 80).	
20			WP5-S8-20.0	1300	0.2		TPH staining resumes; decreased fines to (0, 35, 65).	
							CLAYEY SAND WITH GRAVEL (SC): dark greenish gray (Gley 1 3/1); wet; medium dense; TPH staining and odor (20, 45, 35).	
25					34.8		Strong TPH odor.	

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Iris Environmental
1438 Webster Street, Suite 302
Oakland, CA 64612
Telephone: (510) 834-4747

WELL NUMBER WP5-S8

PROJECT NAME San Leandro Crossings **CLIENT** BUILD San Leandro

PROJECT NUMBER 08-616-B **PROJECT LOCATION** San Leandro, California

DEPTH (FEET)	SAMPLES: DRIVE	SAMPLES: RECOVERY	SAMPLES: RETAINED	SAMPLES: SAMPLE NUMBER	SAMPLES: TIME	PID (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM AND REMARKS
25									
	↓			WP5-S8-25.0	1305				

Bottom of Borehole at 26 feet.

Appendix B

Laboratory Analytical Data Sheets

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 210138
ANALYTICAL REPORT

Iris Environmental	Project : 08-616-A
1438 Webster Street	Location : San Leandro Step-Out
Oakland, CA 94612	Level : II

Sample ID	Lab ID	Sample ID	Lab ID
WP3-S1-3.0	210138-001	WP5-S4-20.0	210138-023
WP3-S1-5.0	210138-002	WP5-S4-25.0	210138-024
WP3-S2-3.0	210138-003	WP5-S5-5.0	210138-025
WP3-S2-5.0	210138-004	WP5-S5-10.0	210138-026
WP5-S1-3.0	210138-005	WP5-S5-15.0	210138-027
WP5-S1-5.0	210138-006	WP5-S5-20.0	210138-028
WP5-S1-15.0	210138-007	WP5-S5-25.0	210138-029
WP5-S1-20.0	210138-008	WP5-S6-5.0	210138-030
WP5-S1-25.0	210138-009	WP5-S6-10.0	210138-031
WP5-S2-5.0	210138-010	WP5-S6-15.0	210138-032
WP5-S2-10.0	210138-011	WP5-S6-20.0	210138-033
WP5-S2-15.0	210138-012	WP5-S6-25.0	210138-034
WP5-S2-20.0	210138-013	WP5-S7-5.0	210138-035
WP5-S2-25.0	210138-014	WP5-S7-10.0	210138-036
WP5-S3-5.0	210138-015	WP5-S7-15.0	210138-037
WP5-S3-10.0	210138-016	WP5-S7-20.0	210138-038
WP5-S3-15.0	210138-017	WP5-S7-25.0	210138-039
WP5-S3-20.0	210138-018	WP5-S8-5.0	210138-040
WP5-S3-25.0	210138-019	WP5-S8-10.0	210138-041
WP5-S4-5.0	210138-020	WP5-S8-15.0	210138-042
WP5-S4-10.0	210138-021	WP5-S8-20.0	210138-043
WP5-S4-15.0	210138-022	WP5-S8-25.0	210138-044

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____ Date: 03/02/2009
Project Manager

Signature: _____ Date: 03/02/2009
Senior Program Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**210138**
Client:	**Iris Environmental**
Project:	**08-616-A**
Location:	**San Leandro Step-Out**
Request Date:	**02/18/09**
Samples Received:	**02/18/09**

This data package contains sample and QC results for forty four soil samples, requested for the above referenced project on 02/18/09. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):
High surrogate recoveries were observed for bromofluorobenzene (FID) and trifluorotoluene (FID) in WP5-S3-15.0 (lab # 210138-017), due to matrix interference. High surrogate recoveries were observed for a number of analytes in WP5-S8-25.0 (lab # 210138-044); no target analytes were detected in the sample. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
High recovery was observed for diesel C10-C24 in the MSD for batch 148149; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. WP5-S1-3.0 (lab # 210138-005) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):
High surrogate recoveries were observed for nitrobenzene-d5 in the MS/MSD for batch 148090; the parent sample was not a project sample. WP5-S1-3.0 (lab # 210138-005) and WP5-S1-5.0 (lab # 210138-006) were diluted due to the dark and viscous nature of the sample extracts. No other analytical problems were encountered.

210138

IRIS ENVIRONMENTAL — CHAIN-OF-CUSTODY

1438 Webster Street, Suite 302
Oakland, California 94612
(510) 834-4747 tel
(510) 834-4199 fax

Date: 2/18/09 Page: 1 of 5 № 2638

Sampler Name(s): Jeff Schmidt
Signature(s):

	Sample ID	Date	Time	Matrix	Pres.	TPH-d/mo (8015)	TPH-g+BTEX (8021)	* PAHs (8270-SIM)	Number of Containers
1	WP3-S1-3.0	2-18-09	0705	Soil	none	X			1
2	WP3-S1-5.0		0710			X	X		1
3	WP3-S2-3.0		0715			X			1
4	WP3-S2-5.0		0720			X	X		1
5	WPS-S1-3.0		0900			X		X	1
6	WPS-S1-5.0		0905			X	X	X	1
7	WPS-S1-15.0		0910			X	X		1
8	WPS-S1-20.0		0915			X			1
9	WPS-S1-25.0		0920			X	X		1
10	WPS-S2-5.0	2-18-09	1120	Soil	None	X	X		1

PROJECT INFORMATION

Project Name: SL Step-out
Project Number: 08-616-B
Contact Person: Jeff Schmidt
E-mail: jeff@irisenv.com
Contact Telephone: 510 834 4747 x45
Report: Routine (Level 2) Level 3 Level 4 EDD
TAT: 10-day 5-day 72-hr 48-hr 24-hr Other:

Special Instructions/Comments:

*Add methylnaphthalene to PAH analyses
Use silica gel cleanup for TPH d/mo
Also run WPS-S1-5, 15, and 20 without silica gel cleanup.

Cold Pine

RELINQUISHED BY:		RECEIVED BY:	
Printed Name	Jeff Schmidt	Printed Name	Troy Bra
Signature		Signature	Troy Bra
Company	Iris	Company	CCH
Time/Date	1525 / 2-18-08	Time/Date	1525 / 2-18-0

RELINQUISHED BY:		RECEIVED BY:	
Printed Name	Tro	Printed Name	
Signature		Signature	
Company		Company	
Time/Date		Time/Date	

210138

IRIS ENVIRONMENTAL — CHAIN-OF-CUSTODY

1438 Webster Street, Suite 302
Oakland, California 94612
(510) 834-4747 tel
(510) 834-4199 fax

Date: 2/18/09 Page: 2 of 5 № 2330

Sampler Name(s): Jeff Schmidt

Signature(s): Jeff Schmidt

	Sample ID	Date	Time	Matrix	Pres.	TPH-d/mo (8015)	TPH-g +BTEX (8021)	Number of Containers
11	WPS-S2-10.0	2-18-09	1125	Soil	None	X		1
12	WPS-S2-15.0	↓	1130	↓	↓	X	X	1
13	WPS-S2-20.0		1135			X		1
14	WPS-S2-25.0		1140			X	X	1
15	WPS-S3-5.0		1035			X	X	1
16	WPS-S3-10.0		1040			X		1
17	WPS-S3-15.0		1045			X	X	1
18	WPS-S3-20.0		1050			X		1
19	WPS-S3-25.0	↓	1055	↓	↓	X	X	1
20	WPS-S4-5.0	2-18-09	0825	Soil	None	X	X	1

Analyses Required

PROJECT INFORMATION

Project Name: SL Step-out
Project Number: 08-616-B
Contact Person: Jeff Schmidt
E-mail: jeff@irisenv.com
Contact Telephone: 510 834 4747 x45
Report: Routine (Level 2) Level 3 Level 4 EDD
TAT: 10-day 5-day 72-hr 48-hr 24-hr Other:

Special Instructions/Comments:

Use silica gel cleanup or ice time

RELINQUISHED BY:	RECEIVED BY:
Printed Name: Jeff Schmidt	Printed Name: Troy Bolton
Signature: Jeff Schmidt	Signature: Troy Bolton
Company: Iris	Company: CEL
Time/Date: ~~14~~ 1525 / 2-18-09	Time/Date: 1525 2-18-09

RELINQUISHED BY:	RECEIVED BY:
Printed Name	Printed Name
Signature	Signature
Company	Company
Time/Date	Time/Date

210134

IRIS ENVIRONMENTAL — CHAIN-OF-CUSTODY

1438 Webster Street, Suite 302
Oakland, California 94612
(510) 834-4747 tel
(510) 834-4199 fax

Date: 2/18/09 Page: 3 of 5 № 2659

Sampler Name(s): Jeff Schmidt

Signature(s):

	Sample ID	Date	Time	Matrix	Pres.	TPH-d/mo (8015)	TPH-g+BTEX (8021)	Number of Containers
21	WPS-S4-10.0	2-18-09	0830	Soil	None	X		1
22	WPS-S4-15.0		0835			X	X	1
23	WPS-S4-20.0		0840			X		1
24	WPS-S4-25.0		0845			X	X	1
25	~~WPS~~ WPS-S5-5.0		0950			X	X	1
26	WPS-S5-10.0		0955			X		1
27	WPS-S5-15.0		1000			X	X	1
28	WPS-~~S~~S5-20.0		1005			X		1
29	WPS-S5-25.0		1010			X	X	1
30	WPS-S6-5.0	2-18-09	0740	Soil	None	X	X	1

PROJECT INFORMATION

Project Name: SL Step out
Project Number: 08-616-B
Contact Person: Jeff Schmidt
E-mail: jeff@irisenv.com
Contact Telephone: 510 834-4747 x 43

Report: Routine (Level 2) Level 3 Level 4 EDD

TAT: 10-day 5-day 72-hr 48-hr 24-hr Other:

Special Instructions/Comments:

Use Silica gel cleanup or ice invoice

RELINQUISHED BY:	RECEIVED BY:
Printed Name: Jeff Schmidt	Printed Name: Tracy Bibjor
Signature: [signature]	Signature: [signature]
Company: Iris	Company: Cet
Time/Date: 1525 / 2-18-09	Time/Date: 1525 / 2-18-09

RELINQUISHED BY:	RECEIVED BY:
Printed Name	Printed Name
Signature	Signature
Company	Company
Time/Date	Time/Date

210138

IRIS ENVIRONMENTAL — CHAIN-OF-CUSTODY

1438 Webster Street, Suite 302
Oakland, California 94612
(510) 834-4747 tel
(510) 834-4199 fax

Date: 2/18/09 Page: 4 of 5 №: 2660

Sampler Name(s): Jeff Schmidt

Signature(s):

Analyses Required

	Sample ID	Date	Time	Matrix	Pres.	TPH-d/mo (8015)	TPH-g + BTEX (8021)	Number of Containers
31	WPS-S6-10.0	2-18-09	0745	Soil	None	X		1
32	WPS-S6-15.0		0750			X	X	1
33	WPS-S6-20.0		0755			X		1
34	WPS-S6-25.0		0800			X	X	1
35	WPS-S7-5.0		1205			X	X	1
36	WPS-S7-10.0		1210			X	~~X~~	1
37	WPS-S7-15.0		1215			X	X	1
38	WPS-S7-20.0		1220			X		1
39	WPS-S7-25.0		1225			X	X	1
40	WPS-S8-5.0	2-18-09	1245	Soil	None	X	X	1

NO BTEX on TPH-g @ WPS-S7-10.0

PROJECT INFORMATION

Project Name: SL Step Out
Project Number: 05-616-B
Contact Person: Jeff Schmidt
E-mail: jeff@iriseny.com
Contact Telephone: 510 534-4747 x45
Report: Routine (Level 2) Level 3 Level 4 EDD
TAT: 10-day 5-day 72-hr 48-hr 24-hr Other:

Special Instructions/Comments:

Use silica gel clean-up
cold ship

RELINQUISHED BY:	RECEIVED BY:
Printed Name: Jeff Schmidt	Printed Name: Tracy Babjak
Signature:	Signature:
Company: Iris	Company: CQT
Time/Date: 1525 / 2-18-09	Time/Date: 1525 / 2-18-09

RELINQUISHED BY:	RECEIVED BY:
Printed Name	Printed Name
Signature	Signature
Company	Company
Time/Date	Time/Date

210138

IRIS ENVIRONMENTAL — CHAIN-OF-CUSTODY

1438 Webster Street, Suite 302
Oakland, California 94612
(510) 834-4747 tel
(510) 834-4199 fax

Date: 2/18/09 Page: 5 of 5 №: 2639

Sampler Name(s): Jeff Schmidt Signature(s):

	Sample ID	Date	Time	Matrix	Pres.	TPH-d/mo (8015)	TPH-g+BTEX (8021)	Number of Containers
41	WPS-S8-10.0	2-18-09	1250	Soil	None	X		1
42	WPS-S8-15.0		1255			X	X	1
43	WPS-S8-20.0		1300			X		1
44	WPS-S8-25.0		1305			X	X	1

PROJECT INFORMATION

Project Name: SL Step-Out
Project Number: 08-616-B
Contact Person: Jeff Schmidt
E-mail: Jeff@irisenv.com
Contact Telephone: 510 834-4747 x45
Report: Routine (Level 2) Level 3 Level 4 EDD
TAT: 10-day 5-day 72-hr 48-hr 24-hr Other:

Special Instructions/Comments:

Use Silica gel cleanup

RELINQUISHED BY:	RECEIVED BY:
Printed Name: Jeff Schmidt	Printed Name: Trec Bob A
Signature:	Signature:
Company: Iris	Company: CET
Time/Date: 1525 / 2-18-09	Time/Date: 1525 / 2-18-09

RELINQUISHED BY:	RECEIVED BY:
Printed Name	Printed Name
Signature	Signature
Company	Company
Time/Date	Time/Date

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 210138 Date Received 2/18/09 Number of coolers 1
Client IRIS ENV. Project SL STEP-OUT

Date Opened 2/18/09 By (print) M. VILLANUEVA (sign) [signature]
Date Logged in 2/19/9 By (print) S. Evans (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
   Shipping info _____
2A. Were custody seals present? ... ☐ YES (circle) on cooler on samples ☐ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ YES NO
6. Indicate the packing in cooler: (if other, describe) _____

   ☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
   ☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels
7. Temperature documentation:

   Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) _____

   ☑ Samples Received on ice & cold without a temperature blank

   ☐ Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? _____ YES NO
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are samples in the appropriate containers for indicated tests? _____ YES NO
11. Are sample labels present, in good condition and complete? _____ YES NO
12. Do the sample labels agree with custody papers? _____ YES NO
13. Was sufficient amount of sample sent for tests requested? _____ YES NO
14. Are the samples appropriately preserved? _____ YES NO N/A
15. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
16. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP3-S1-5.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148138
Lab ID:	210138-002	Analyzed:	02/20/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.95	mg/Kg	EPA 8015B
Benzene	ND	4.8	ug/Kg	EPA 8021B
Toluene	ND	4.8	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.8	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.8	ug/Kg	EPA 8021B
o-Xylene	ND	4.8	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	109	55-151	EPA 8015B
Bromofluorobenzene (FID)	108	55-153	EPA 8015B
Trifluorotoluene (PID)	92	43-150	EPA 8021B
Bromofluorobenzene (PID)	93	45-149	EPA 8021B

Field ID:	WP3-S2-5.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148138
Lab ID:	210138-004	Analyzed:	02/20/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.1	mg/Kg	EPA 8015B
Benzene	ND	5.3	ug/Kg	EPA 8021B
Toluene	ND	5.3	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.3	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.3	ug/Kg	EPA 8021B
o-Xylene	ND	5.3	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	107	55-151	EPA 8015B
Bromofluorobenzene (FID)	108	55-153	EPA 8015B
Trifluorotoluene (PID)	90	43-150	EPA 8021B
Bromofluorobenzene (PID)	93	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S1-5.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148138
Lab ID:	210138-006	Analyzed:	02/20/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	7.7 Y	1.1	mg/Kg	EPA 8015B
Benzene	ND	5.4	ug/Kg	EPA 8021B
Toluene	ND	5.4	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.4	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.4	ug/Kg	EPA 8021B
o-Xylene	ND	5.4	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	119	55-151	EPA 8015B
Bromofluorobenzene (FID)	138	55-153	EPA 8015B
Trifluorotoluene (PID)	95	43-150	EPA 8021B
Bromofluorobenzene (PID)	104	45-149	EPA 8021B

Field ID:	WP5-S1-15.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/25/09
Lab ID:	210138-007		

Analyte	Result	RL	Units	Batch#	Analysis
Gasoline C7-C12	1.6 Y	0.92	mg/Kg	148220	EPA 8015B
Benzene	ND	5.0	ug/Kg	148283	EPA 8021B
Toluene	ND	5.0	ug/Kg	148283	EPA 8021B
Ethylbenzene	ND	5.0	ug/Kg	148283	EPA 8021B
m,p-Xylenes	ND	5.0	ug/Kg	148283	EPA 8021B
o-Xylene	ND	5.0	ug/Kg	148283	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analysis
Trifluorotoluene (FID)	106	55-151	148220	EPA 8015B
Bromofluorobenzene (FID)	112	55-153	148220	EPA 8015B
Trifluorotoluene (PID)	84	43-150	148283	EPA 8021B
Bromofluorobenzene (PID)	87	45-149	148283	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID: WP5-S1-25.0 Lab ID: 210138-009
Type: SAMPLE Diln Fac: 20.00

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	190 Y	20	mg/Kg	148220	02/24/09	EPA 8015B
Benzene	ND	100	ug/Kg	148283	02/26/09	EPA 8021B
Toluene	ND	100	ug/Kg	148283	02/26/09	EPA 8021B
Ethylbenzene	ND	100	ug/Kg	148283	02/26/09	EPA 8021B
m,p-Xylenes	ND	100	ug/Kg	148283	02/26/09	EPA 8021B
o-Xylene	640 C	100	ug/Kg	148283	02/26/09	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	128	55-151	148220	02/24/09	EPA 8015B
Bromofluorobenzene (FID)	153	55-153	148220	02/24/09	EPA 8015B
Trifluorotoluene (PID)	92	43-150	148283	02/26/09	EPA 8021B
Bromofluorobenzene (PID)	113	45-149	148283	02/26/09	EPA 8021B

Field ID: WP5-S2-5.0 Lab ID: 210138-010
Type: SAMPLE Diln Fac: 1.000

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	ND	0.94	mg/Kg	148220	02/25/09	EPA 8015B
Benzene	ND	5.2	ug/Kg	148283	02/26/09	EPA 8021B
Toluene	ND	5.2	ug/Kg	148283	02/26/09	EPA 8021B
Ethylbenzene	ND	5.2	ug/Kg	148283	02/26/09	EPA 8021B
m,p-Xylenes	ND	5.2	ug/Kg	148283	02/26/09	EPA 8021B
o-Xylene	ND	5.2	ug/Kg	148283	02/26/09	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	109	55-151	148220	02/25/09	EPA 8015B
Bromofluorobenzene (FID)	111	55-153	148220	02/25/09	EPA 8015B
Trifluorotoluene (PID)	65	43-150	148283	02/26/09	EPA 8021B
Bromofluorobenzene (PID)	67	45-149	148283	02/26/09	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S2-15.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/25/09
Lab ID:	210138-012		

Analyte	Result	RL	Units	Batch#	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	148220	EPA 8015B
Benzene	ND	5.1	ug/Kg	148283	EPA 8021B
Toluene	ND	5.1	ug/Kg	148283	EPA 8021B
Ethylbenzene	ND	5.1	ug/Kg	148283	EPA 8021B
m,p-Xylenes	ND	5.1	ug/Kg	148283	EPA 8021B
o-Xylene	ND	5.1	ug/Kg	148283	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analysis
Trifluorotoluene (FID)	109	55-151	148220	EPA 8015B
Bromofluorobenzene (FID)	114	55-153	148220	EPA 8015B
Trifluorotoluene (PID)	57	43-150	148283	EPA 8021B
Bromofluorobenzene (PID)	60	45-149	148283	EPA 8021B

Field ID:	WP5-S2-25.0	Lab ID:	210138-014
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	148220	02/25/09	EPA 8015B
Benzene	ND	4.7	ug/Kg	148283	02/26/09	EPA 8021B
Toluene	ND	4.7	ug/Kg	148283	02/26/09	EPA 8021B
Ethylbenzene	ND	4.7	ug/Kg	148283	02/26/09	EPA 8021B
m,p-Xylenes	ND	4.7	ug/Kg	148283	02/26/09	EPA 8021B
o-Xylene	ND	4.7	ug/Kg	148283	02/26/09	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	106	55-151	148220	02/25/09	EPA 8015B
Bromofluorobenzene (FID)	108	55-153	148220	02/25/09	EPA 8015B
Trifluorotoluene (PID)	78	43-150	148283	02/26/09	EPA 8021B
Bromofluorobenzene (PID)	80	45-149	148283	02/26/09	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S3-5.0	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	02/25/09
Lab ID:	210138-015		

Analyte	Result	RL	Units	Batch#	Analysis
Gasoline C7-C12	3.4 Y	1.0	mg/Kg	148220	EPA 8015B
Benzene	ND	4.6	ug/Kg	148283	EPA 8021B
Toluene	ND	4.6	ug/Kg	148283	EPA 8021B
Ethylbenzene	ND	4.6	ug/Kg	148283	EPA 8021B
m,p-Xylenes	ND	4.6	ug/Kg	148283	EPA 8021B
o-Xylene	ND	4.6	ug/Kg	148283	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analysis
Trifluorotoluene (FID)	95	55-151	148220	EPA 8015B
Bromofluorobenzene (FID)	109	55-153	148220	EPA 8015B
Trifluorotoluene (PID)	78	43-150	148283	EPA 8021B
Bromofluorobenzene (PID)	84	45-149	148283	EPA 8021B

Field ID:	WP5-S3-15.0	Lab ID:	210138-017
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	53 Y	1.1	mg/Kg	148138	02/21/09	EPA 8015B
Benzene	ND	4.9	ug/Kg	148283	02/25/09	EPA 8021B
Toluene	ND	4.9	ug/Kg	148283	02/25/09	EPA 8021B
Ethylbenzene	120 C	4.9	ug/Kg	148283	02/25/09	EPA 8021B
m,p-Xylenes	ND	4.9	ug/Kg	148283	02/25/09	EPA 8021B
o-Xylene	60 C	4.9	ug/Kg	148283	02/25/09	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	158 *	55-151	148138	02/21/09	EPA 8015B
Bromofluorobenzene (FID)	262 *	55-153	148138	02/21/09	EPA 8015B
Trifluorotoluene (PID)	108	43-150	148283	02/25/09	EPA 8021B
Bromofluorobenzene (PID)	126	45-149	148283	02/25/09	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S3-25.0	Lab ID:	210138-019
Type:	SAMPLE	Diln Fac:	20.00

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	92 Y	20	mg/Kg	148220	02/24/09	EPA 8015B
Benzene	ND	100	ug/Kg	148283	02/26/09	EPA 8021B
Toluene	ND	100	ug/Kg	148283	02/26/09	EPA 8021B
Ethylbenzene	ND	100	ug/Kg	148283	02/26/09	EPA 8021B
m,p-Xylenes	ND	100	ug/Kg	148283	02/26/09	EPA 8021B
o-Xylene	270 C	100	ug/Kg	148283	02/26/09	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	114	55-151	148220	02/24/09	EPA 8015B
Bromofluorobenzene (FID)	135	55-153	148220	02/24/09	EPA 8015B
Trifluorotoluene (PID)	96	43-150	148283	02/26/09	EPA 8021B
Bromofluorobenzene (PID)	100	45-149	148283	02/26/09	EPA 8021B

Field ID:	WP5-S4-5.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148138
Lab ID:	210138-020	Analyzed:	02/20/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.1	mg/Kg	EPA 8015B
Benzene	ND	5.4	ug/Kg	EPA 8021B
Toluene	ND	5.4	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.4	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.4	ug/Kg	EPA 8021B
o-Xylene	ND	5.4	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	105	55-151	EPA 8015B
Bromofluorobenzene (FID)	108	55-153	EPA 8015B
Trifluorotoluene (PID)	84	43-150	EPA 8021B
Bromofluorobenzene (PID)	91	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S4-15.0	Lab ID:	210138-022
Type:	SAMPLE	Diln Fac:	1.000

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	148220	02/25/09	EPA 8015B
Benzene	ND	5.1	ug/Kg	148283	02/26/09	EPA 8021B
Toluene	ND	5.1	ug/Kg	148283	02/26/09	EPA 8021B
Ethylbenzene	ND	5.1	ug/Kg	148283	02/26/09	EPA 8021B
m,p-Xylenes	ND	5.1	ug/Kg	148283	02/26/09	EPA 8021B
o-Xylene	ND	5.1	ug/Kg	148283	02/26/09	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	107	55-151	148220	02/25/09	EPA 8015B
Bromofluorobenzene (FID)	107	55-153	148220	02/25/09	EPA 8015B
Trifluorotoluene (PID)	85	43-150	148283	02/26/09	EPA 8021B
Bromofluorobenzene (PID)	89	45-149	148283	02/26/09	EPA 8021B

Field ID:	WP5-S4-25.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-024	Analyzed:	02/21/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.97	mg/Kg	EPA 8015B
Benzene	ND	4.9	ug/Kg	EPA 8021B
Toluene	ND	4.9	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.9	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.9	ug/Kg	EPA 8021B
o-Xylene	ND	4.9	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	97	55-151	EPA 8015B
Bromofluorobenzene (FID)	96	55-153	EPA 8015B
Trifluorotoluene (PID)	105	43-150	EPA 8021B
Bromofluorobenzene (PID)	108	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S5-5.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-025	Analyzed:	02/21/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.1	mg/Kg	EPA 8015B
Benzene	ND	5.3	ug/Kg	EPA 8021B
Toluene	ND	5.3	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.3	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.3	ug/Kg	EPA 8021B
o-Xylene	ND	5.3	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	96	55-151	EPA 8015B
Bromofluorobenzene (FID)	96	55-153	EPA 8015B
Trifluorotoluene (PID)	100	43-150	EPA 8021B
Bromofluorobenzene (PID)	100	45-149	EPA 8021B

Field ID:	WP5-S5-15.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-027	Analyzed:	02/21/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.92	mg/Kg	EPA 8015B
Benzene	ND	4.6	ug/Kg	EPA 8021B
Toluene	ND	4.6	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.6	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.6	ug/Kg	EPA 8021B
o-Xylene	ND	4.6	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	96	55-151	EPA 8015B
Bromofluorobenzene (FID)	97	55-153	EPA 8015B
Trifluorotoluene (PID)	101	43-150	EPA 8021B
Bromofluorobenzene (PID)	103	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S5-25.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-029	Analyzed:	02/21/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.93	mg/Kg	EPA 8015B
Benzene	ND	4.7	ug/Kg	EPA 8021B
Toluene	ND	4.7	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.7	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.7	ug/Kg	EPA 8021B
o-Xylene	ND	4.7	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	96	55-151	EPA 8015B
Bromofluorobenzene (FID)	97	55-153	EPA 8015B
Trifluorotoluene (PID)	102	43-150	EPA 8021B
Bromofluorobenzene (PID)	101	45-149	EPA 8021B

Field ID:	WP5-S6-5.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-030	Analyzed:	02/21/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.96	mg/Kg	EPA 8015B
Benzene	ND	4.8	ug/Kg	EPA 8021B
Toluene	ND	4.8	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.8	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.8	ug/Kg	EPA 8021B
o-Xylene	ND	4.8	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	97	55-151	EPA 8015B
Bromofluorobenzene (FID)	97	55-153	EPA 8015B
Trifluorotoluene (PID)	104	43-150	EPA 8021B
Bromofluorobenzene (PID)	100	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S6-15.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-032	Analyzed:	02/21/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.1	ug/Kg	EPA 8021B
Toluene	ND	5.1	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.1	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.1	ug/Kg	EPA 8021B
o-Xylene	ND	5.1	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	96	55-151	EPA 8015B
Bromofluorobenzene (FID)	99	55-153	EPA 8015B
Trifluorotoluene (PID)	103	43-150	EPA 8021B
Bromofluorobenzene (PID)	103	45-149	EPA 8021B

Field ID:	WP5-S6-25.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-034	Analyzed:	02/22/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.2	ug/Kg	EPA 8021B
Toluene	ND	5.2	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.2	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.2	ug/Kg	EPA 8021B
o-Xylene	ND	5.2	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	97	55-151	EPA 8015B
Bromofluorobenzene (FID)	97	55-153	EPA 8015B
Trifluorotoluene (PID)	102	43-150	EPA 8021B
Bromofluorobenzene (PID)	101	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S7-5.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-035	Analyzed:	02/22/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.96	mg/Kg	EPA 8015B
Benzene	ND	4.8	ug/Kg	EPA 8021B
Toluene	ND	4.8	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.8	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.8	ug/Kg	EPA 8021B
o-Xylene	ND	4.8	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	99	55-151	EPA 8015B
Bromofluorobenzene (FID)	99	55-153	EPA 8015B
Trifluorotoluene (PID)	109	43-150	EPA 8021B
Bromofluorobenzene (PID)	102	45-149	EPA 8021B

Field ID:	WP5-S7-15.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-037	Analyzed:	02/22/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.94	mg/Kg	EPA 8015B
Benzene	ND	4.7	ug/Kg	EPA 8021B
Toluene	ND	4.7	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.7	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.7	ug/Kg	EPA 8021B
o-Xylene	ND	4.7	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	99	55-151	EPA 8015B
Bromofluorobenzene (FID)	99	55-153	EPA 8015B
Trifluorotoluene (PID)	103	43-150	EPA 8021B
Bromofluorobenzene (PID)	104	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S7-25.0	Lab ID:	210138-039
Type:	SAMPLE	Diln Fac:	10.00

Analyte	Result	RL	Units	Batch#	Analyzed	Analysis
Gasoline C7-C12	29 Y	10	mg/Kg	148220	02/24/09	EPA 8015B
Benzene	ND	50	ug/Kg	148283	02/26/09	EPA 8021B
Toluene	ND	50	ug/Kg	148283	02/26/09	EPA 8021B
Ethylbenzene	ND	50	ug/Kg	148283	02/26/09	EPA 8021B
m,p-Xylenes	ND	50	ug/Kg	148283	02/26/09	EPA 8021B
o-Xylene	ND	50	ug/Kg	148283	02/26/09	EPA 8021B

Surrogate	%REC	Limits	Batch#	Analyzed	Analysis
Trifluorotoluene (FID)	99	55-151	148220	02/24/09	EPA 8015B
Bromofluorobenzene (FID)	113	55-153	148220	02/24/09	EPA 8015B
Trifluorotoluene (PID)	87	43-150	148283	02/26/09	EPA 8021B
Bromofluorobenzene (PID)	98	45-149	148283	02/26/09	EPA 8021B

Field ID:	WP5-S8-5.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-040	Analyzed:	02/22/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	0.96	mg/Kg	EPA 8015B
Benzene	ND	4.8	ug/Kg	EPA 8021B
Toluene	ND	4.8	ug/Kg	EPA 8021B
Ethylbenzene	ND	4.8	ug/Kg	EPA 8021B
m,p-Xylenes	ND	4.8	ug/Kg	EPA 8021B
o-Xylene	ND	4.8	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	99	55-151	EPA 8015B
Bromofluorobenzene (FID)	104	55-153	EPA 8015B
Trifluorotoluene (PID)	71	43-150	EPA 8021B
Bromofluorobenzene (PID)	83	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Field ID:	WP5-S8-15.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-042	Analyzed:	02/22/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.2	ug/Kg	EPA 8021B
Toluene	ND	5.2	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.2	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.2	ug/Kg	EPA 8021B
o-Xylene	ND	5.2	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	102	55-151	EPA 8015B
Bromofluorobenzene (FID)	104	55-153	EPA 8015B
Trifluorotoluene (PID)	88	43-150	EPA 8021B
Bromofluorobenzene (PID)	93	45-149	EPA 8021B

Field ID:	WP5-S8-25.0	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	148150
Lab ID:	210138-044	Analyzed:	02/21/09

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.2	ug/Kg	EPA 8021B
Toluene	ND	5.2	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.2	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.2	ug/Kg	EPA 8021B
o-Xylene	ND	5.2	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	185 *	55-151	EPA 8015B
Bromofluorobenzene (FID)	173 *	55-153	EPA 8015B
Trifluorotoluene (PID)	210 *	43-150	EPA 8021B
Bromofluorobenzene (PID)	186 *	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Type:	BLANK	Batch#:	148138
Lab ID:	QC484226	Analyzed:	02/20/09
Diln Fac:	1.000		

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.0	ug/Kg	EPA 8021B
Toluene	ND	5.0	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.0	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.0	ug/Kg	EPA 8021B
o-Xylene	ND	5.0	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	106	55-151	EPA 8015B
Bromofluorobenzene (FID)	106	55-153	EPA 8015B
Trifluorotoluene (PID)	89	43-150	EPA 8021B
Bromofluorobenzene (PID)	91	45-149	EPA 8021B

Type:	BLANK	Batch#:	148150
Lab ID:	QC484288	Analyzed:	02/21/09
Diln Fac:	1.000		

Analyte	Result	RL	Units	Analysis
Gasoline C7-C12	ND	1.0	mg/Kg	EPA 8015B
Benzene	ND	5.0	ug/Kg	EPA 8021B
Toluene	ND	5.0	ug/Kg	EPA 8021B
Ethylbenzene	ND	5.0	ug/Kg	EPA 8021B
m,p-Xylenes	ND	5.0	ug/Kg	EPA 8021B
o-Xylene	ND	5.0	ug/Kg	EPA 8021B

Surrogate	%REC	Limits	Analysis
Trifluorotoluene (FID)	95	55-151	EPA 8015B
Bromofluorobenzene (FID)	92	55-153	EPA 8015B
Trifluorotoluene (PID)	101	43-150	EPA 8021B
Bromofluorobenzene (PID)	96	45-149	EPA 8021B

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Basis:	as received	Received:	02/18/09

Type:	BLANK	Batch#:	148220
Lab ID:	QC484580	Analyzed:	02/24/09
Units:	mg/Kg	Analysis:	EPA 8015B
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)		105	55-151
Bromofluorobenzene (FID)		107	55-153
Trifluorotoluene (PID)	NA		
Bromofluorobenzene (PID)	NA		

Type:	BLANK	Batch#:	148283
Lab ID:	QC484880	Analyzed:	02/25/09
Units:	ug/Kg	Analysis:	EPA 8021B
Diln Fac:	1.000		

Analyte	Result	RL
Benzene	ND	5.0
Toluene	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0

Surrogate	Result	%REC	Limits
Trifluorotoluene (FID)	NA		
Bromofluorobenzene (FID)	NA		
Trifluorotoluene (PID)		83	43-150
Bromofluorobenzene (PID)		81	45-149

*= Value outside of QC limits; see narrative
C= Presence confirmed, but RPD between columns exceeds 40%
Y= Sample exhibits chromatographic pattern which does not resemble standard
NA= Not Analyzed
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A	Analysis:	EPA 8021B
Type:	LCS	Basis:	as received
Lab ID:	QC484227	Diln Fac:	1.000
Matrix:	Soil	Batch#:	148138
Units:	ug/Kg	Analyzed:	02/20/09

Analyte	Spiked	Result	%REC	Limits
Benzene	50.00	43.38	87	78-120
Toluene	50.00	45.19	90	78-120
Ethylbenzene	50.00	44.11	88	80-122
m,p-Xylenes	50.00	44.26	89	80-122
o-Xylene	50.00	45.62	91	79-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	93	43-150
Bromofluorobenzene (PID)	94	45-149

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Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC484229	Diln Fac:	1.000
Matrix:	Soil	Batch#:	148138
Units:	mg/Kg	Analyzed:	02/20/09

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	4.898	98	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	55-151
Bromofluorobenzene (FID)	109	55-153

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A	Analysis:	EPA 8015B
Field ID:	WP5-S4-5.0	Diln Fac:	1.000
MSS Lab ID:	210138-020	Batch#:	148138
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received	Analyzed:	02/20/09

Type: MS Lab ID: QC484230

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.09655	9.804	8.197	83	29-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	146	55-151
Bromofluorobenzene (FID)	122	55-153

Type: MSD Lab ID: QC484231

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.42	8.941	85	29-120	3	34

Surrogate	%REC	Limits
Trifluorotoluene (FID)	146	55-151
Bromofluorobenzene (FID)	123	55-153

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A	Analysis:	EPA 8021B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	148150
Basis:	as received	Analyzed:	02/21/09

Type: BS Lab ID: QC484289

Analyte	Spiked	Result	%REC	Limits
Benzene	50.00	47.63	95	78-120
Toluene	50.00	51.29	103	78-120
Ethylbenzene	50.00	50.73	101	80-122
m,p-Xylenes	50.00	55.13	110	80-122
o-Xylene	50.00	50.14	100	79-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	108	43-150
Bromofluorobenzene (PID)	105	45-149

Type: BSD Lab ID: QC484290

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	50.00	41.33	83	78-120	14	20
Toluene	50.00	45.87	92	78-120	11	20
Ethylbenzene	50.00	47.67	95	80-122	6	20
m,p-Xylenes	50.00	49.26	99	80-122	11	21
o-Xylene	50.00	46.46	93	79-122	8	23

Surrogate	%REC	Limits
Trifluorotoluene (PID)	102	43-150
Bromofluorobenzene (PID)	102	45-149

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC484291	Diln Fac:	1.000
Matrix:	Soil	Batch#:	148150
Units:	mg/Kg	Analyzed:	02/21/09

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.057	101	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	111	55-151
Bromofluorobenzene (FID)	99	55-153

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Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A	Analysis:	EPA 8015B
Field ID:	WP5-S8-25.0	Diln Fac:	1.000
MSS Lab ID:	210138-044	Batch#:	148150
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received	Analyzed:	02/21/09

Type: MS Lab ID: QC484292

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1497	10.53	9.310	87	29-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	126	55-151
Bromofluorobenzene (FID)	96	55-153

Type: MSD Lab ID: QC484293

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.901	9.661	96	29-120	10	34

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137	55-151
Bromofluorobenzene (FID)	117	55-153

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	148220
Basis:	as received	Analyzed:	02/24/09

Type: BS Lab ID: QC484581

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	5.000	5.260	105	78-120

Surrogate	%REC	Limits
Trifluorotoluene (FID)	122	55-151
Bromofluorobenzene (FID)	110	55-153

Type: BSD Lab ID: QC484582

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.00	9.058	91	78-120	15	20

Surrogate	%REC	Limits
Trifluorotoluene (FID)	137	55-151
Bromofluorobenzene (FID)	112	55-153

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 5030B
Project#:	08-616-A	Analysis:	EPA 8021B
Matrix:	Soil	Diln Fac:	1.000
Units:	ug/Kg	Batch#:	148283
Basis:	as received	Analyzed:	02/25/09

Type: BS Lab ID: QC484881

Analyte	Spiked	Result	%REC	Limits
Benzene	50.00	47.61	95	78-120
Toluene	50.00	48.76	98	78-120
Ethylbenzene	50.00	52.24	104	80-122
m,p-Xylenes	50.00	50.32	101	80-122
o-Xylene	50.00	50.96	102	79-122

Surrogate	%REC	Limits
Trifluorotoluene (PID)	84	43-150
Bromofluorobenzene (PID)	84	45-149

Type: BSD Lab ID: QC484882

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	50.00	45.02	90	78-120	6	20
Toluene	50.00	48.41	97	78-120	1	20
Ethylbenzene	50.00	48.80	98	80-122	7	20
m,p-Xylenes	50.00	49.07	98	80-122	3	21
o-Xylene	50.00	49.28	99	79-122	3	23

Surrogate	%REC	Limits
Trifluorotoluene (PID)	83	43-150
Bromofluorobenzene (PID)	83	45-149

RPD= Relative Percent Difference

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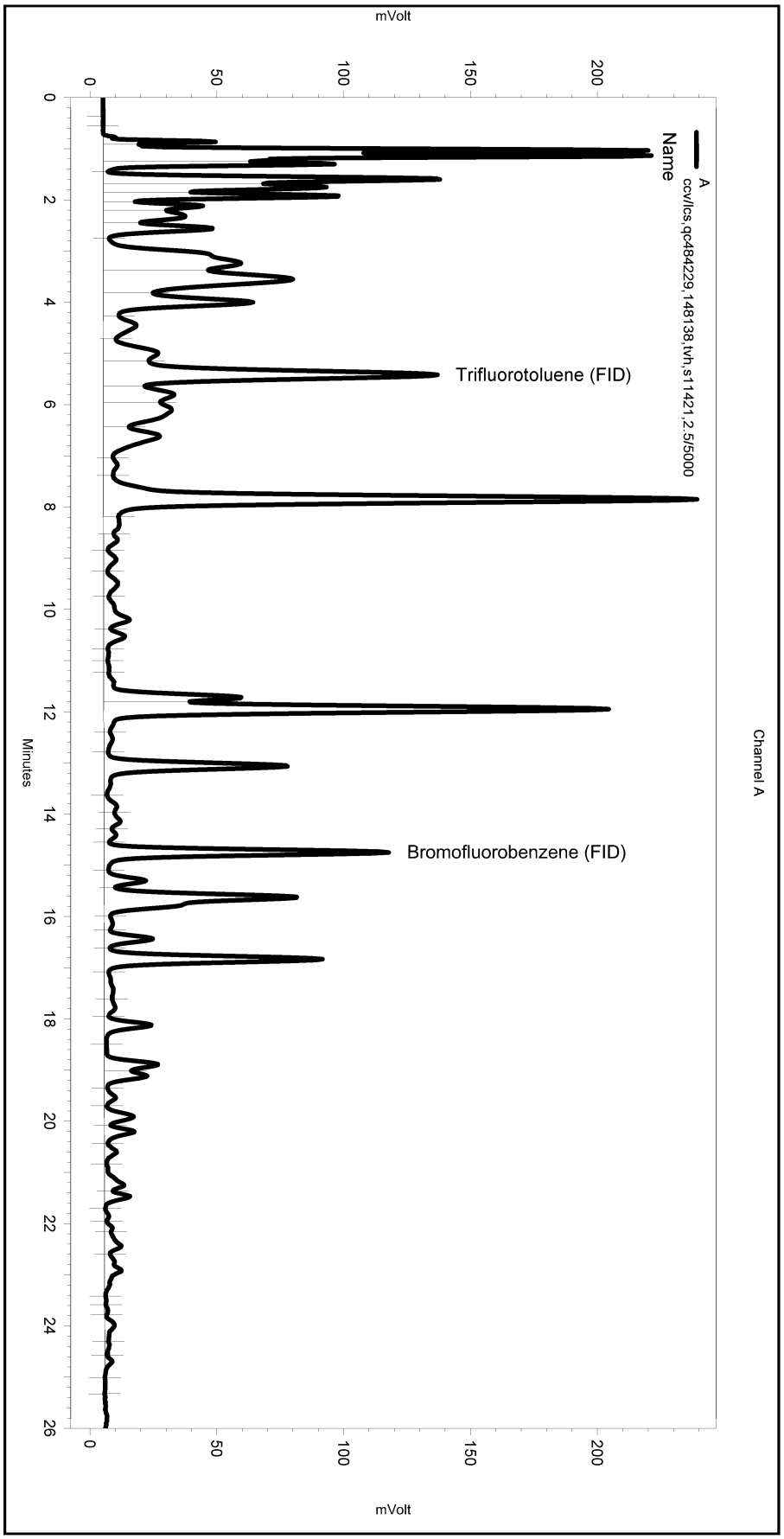
Sample Name: **ccv/lcs,qc484229,148138,tvh,s11421,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC05\Data\051_003**
Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxemtbesingle037.met

Software Version 3.1.7
Run Date: 2/20/2009 6:09:48 PM
Analysis Date: 2/20/2009 6:38:32 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: {Data Description}



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No items selected for this section

---< A >----------

No items selected for this section

Integration Events
==========

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes
==========

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10048\051_003_8B01.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	SHAKER TABLE
Project#:	08-616-A	Analysis:	EPA 8015B
Type:	LCS	Basis:	as received
Lab ID:	QC484285	Diln Fac:	1.000
Matrix:	Soil	Batch#:	148149
Units:	mg/Kg	Prepared:	02/21/09

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits	Analyzed
Diesel C10-C24	49.88	54.10	108	51-123	02/27/09
Diesel C10-C24 (SGCU)	49.88	51.73	104	51-123	02/23/09

Surrogate	%REC	Limits	Analyzed
o-Terphenyl	103	56-141	02/27/09
o-Terphenyl (SGCU)	99	56-141	02/23/09

SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	SHAKER TABLE
Project#:	08-616-A	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	148149
MSS Lab ID:	210129-007	Sampled:	02/17/09
Matrix:	Soil	Received:	02/17/09
Units:	mg/Kg	Prepared:	02/21/09
Basis:	as received	Analyzed:	02/23/09
Diln Fac:	1.000		

Type: MS Lab ID: QC484286

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	175.3	49.95	198.3	46	38-140

Surrogate	%REC	Limits
o-Terphenyl	92	56-141

Type: MSD Lab ID: QC484287

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.97	265.9	181 *	38-140	29	49

Surrogate	%REC	Limits
o-Terphenyl	92	56-141

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	SHAKER TABLE
Project#:	08-616-A	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC484343	Batch#:	148162
Matrix:	Soil	Prepared:	02/22/09
Units:	mg/Kg	Analyzed:	02/24/09
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24 (SGCU)	49.97	38.46	77	51-123

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	76	56-141

SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP3-S1-3.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/23/09
Lab ID:	210138-001	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	1.5 Y	1.0
Motor Oil C24-C36 (SGCU)	8.7	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	89	56-141

Field ID:	WP3-S1-5.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/23/09
Lab ID:	210138-002	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	0.99
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	79	56-141

Field ID:	WP3-S2-3.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-003	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	0.99
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	84	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP3-S2-5.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-004	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	740 Y	10
Motor Oil C24-C36 (SGCU)	2,500	50

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	DO	56-141

Field ID:	WP5-S1-3.0	Prepared:	02/26/09
Type:	SAMPLE	Analyzed:	02/27/09
Lab ID:	210138-005	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	148349		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	480 Y	5.0
Motor Oil C24-C36 (SGCU)	1,200	25

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	71	56-141

Field ID:	WP5-S1-5.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-006	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24	3,600	9.9
Diesel C10-C24 (SGCU)	3,100	9.9
Motor Oil C24-C36	1,700	50
Motor Oil C24-C36 (SGCU)	1,500	50

Surrogate	%REC	Limits
o-Terphenyl	DO	56-141
o-Terphenyl (SGCU)	DO	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S1-15.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-007	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24	380	0.99
Diesel C10-C24 (SGCU)	360	0.99
Motor Oil C24-C36	180	5.0
Motor Oil C24-C36 (SGCU)	190	5.0

Surrogate	%REC	Limits
o-Terphenyl	100	56-141
o-Terphenyl (SGCU)	95	56-141

Field ID:	WP5-S1-20.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-008	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24	730	1.0
Diesel C10-C24 (SGCU)	590	1.0
Motor Oil C24-C36	340	5.0
Motor Oil C24-C36 (SGCU)	290	5.0

Surrogate	%REC	Limits
o-Terphenyl	79	56-141
o-Terphenyl (SGCU)	75	56-141

Field ID:	WP5-S1-25.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-009	Prep:	SHAKER TABLE
Diln Fac:	20.00	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	5,400	20
Motor Oil C24-C36 (SGCU)	2,700	99

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	DO	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S2-5.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/23/09
Lab ID:	210138-010	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	2.5 Y	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	92	56-141

Field ID:	WP5-S2-10.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/23/09
Lab ID:	210138-011	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	1.3 Y	0.99
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	92	56-141

Field ID:	WP5-S2-15.0	Prepared:	02/21/09
Type:	SAMPLE	Analyzed:	02/23/09
Lab ID:	210138-012	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148149		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	1.5 Y	0.99
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	103	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S2-20.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-013	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	69	56-141

Field ID:	WP5-S2-25.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-014	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	71	56-141

Field ID:	WP5-S3-5.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-015	Prep:	SHAKER TABLE
Diln Fac:	20.00	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	6,900	20
Motor Oil C24-C36 (SGCU)	4,100	100

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	DO	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S3-10.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-016	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	1,700	5.0
Motor Oil C24-C36 (SGCU)	1,100	25

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	66	56-141

Field ID:	WP5-S3-15.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-017	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	2,100	9.9
Motor Oil C24-C36 (SGCU)	1,300	50

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	DO	56-141

Field ID:	WP5-S3-20.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-018	Prep:	SHAKER TABLE
Diln Fac:	5.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	2,100	5.0
Motor Oil C24-C36 (SGCU)	1,300	25

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	139	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S3-25.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-019	Prep:	SHAKER TABLE
Diln Fac:	10.00	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	3,800	9.9
Motor Oil C24-C36 (SGCU)	2,100	50

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	DO	56-141

Field ID:	WP5-S4-5.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-020	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	1.0 Y	0.99
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	65	56-141

Field ID:	WP5-S4-10.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-021	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	64	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S4-15.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-022	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	64	56-141

Field ID:	WP5-S4-20.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-023	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	68	56-141

Field ID:	WP5-S4-25.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-024	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	67	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S5-5.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-025	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	58	56-141

Field ID:	WP5-S5-10.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-026	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	75	56-141

Field ID:	WP5-S5-15.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-027	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	58	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S5-20.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-028	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	1.0 Y	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	57	56-141

Field ID:	WP5-S5-25.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-029	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	67	56-141

Field ID:	WP5-S6-5.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-030	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	59	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S6-10.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-031	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	60	56-141

Field ID:	WP5-S6-15.0	Prepared:	02/22/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-032	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148162		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	66	56-141

Field ID:	WP5-S6-20.0	Prepared:	02/23/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-033	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148203		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	1.2 Y	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	87	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S6-25.0	Prepared:	02/23/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-034	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148203		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	0.99
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	85	56-141

Field ID:	WP5-S7-5.0	Prepared:	02/23/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-035	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148203		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	72	56-141

Field ID:	WP5-S7-10.0	Prepared:	02/23/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-036	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148203		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	2.3 Y	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	102	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S7-15.0	Prepared:	02/23/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-037	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148203		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	88	56-141

Field ID:	WP5-S7-20.0	Prepared:	02/23/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-038	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148203		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	89	56-141

Field ID:	WP5-S7-25.0	Prepared:	02/23/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-039	Prep:	EPA 3550B
Diln Fac:	20.00	Cleanup Method:	EPA 3630C
Batch#:	148203		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	2,900	20
Motor Oil C24-C36 (SGCU)	1,300	100

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	DO	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S8-5.0	Prepared:	02/23/09
Type:	SAMPLE	Analyzed:	02/24/09
Lab ID:	210138-040	Prep:	EPA 3550B
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148203		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	73	56-141

Field ID:	WP5-S8-10.0	Prepared:	02/24/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-041	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148230		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	1.0 Y	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	79	56-141

Field ID:	WP5-S8-15.0	Prepared:	02/24/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-042	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148230		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	85	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Field ID:	WP5-S8-20.0	Prepared:	02/24/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-043	Prep:	SHAKER TABLE
Diln Fac:	1.000	Cleanup Method:	EPA 3630C
Batch#:	148230		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	85	56-141

Field ID:	WP5-S8-25.0	Prepared:	02/24/09
Type:	SAMPLE	Analyzed:	02/26/09
Lab ID:	210138-044	Prep:	SHAKER TABLE
Diln Fac:	3.000	Cleanup Method:	EPA 3630C
Batch#:	148230		

Analyte	Result	RL
Diesel C10-C24 (SGCU)	840	3.0
Motor Oil C24-C36 (SGCU)	490	15

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	62	56-141

Type:	BLANK	Prepared:	02/21/09
Lab ID:	QC484284	Analyzed:	02/23/09
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	148149	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36	ND	5.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	86	56-141
o-Terphenyl (SGCU)	97	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Type:	BLANK	Prepared:	02/22/09
Lab ID:	QC484342	Analyzed:	02/26/09
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	148162	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	77	56-141

Type:	BLANK	Prepared:	02/23/09
Lab ID:	QC484513	Analyzed:	02/25/09
Diln Fac:	1.000	Prep:	EPA 3550B
Batch#:	148203	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	71	56-141

Type:	BLANK	Prepared:	02/24/09
Lab ID:	QC484638	Analyzed:	02/26/09
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	148230	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	1.0
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	95	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Analysis:	EPA 8015B
Project#:	08-616-A		
Matrix:	Soil	Sampled:	02/18/09
Units:	mg/Kg	Received:	02/18/09
Basis:	as received		

Type:	BLANK	Prepared:	02/26/09
Lab ID:	QC485182	Analyzed:	02/27/09
Diln Fac:	1.000	Prep:	SHAKER TABLE
Batch#:	148349	Cleanup Method:	EPA 3630C

Analyte	Result	RL
Diesel C10-C24 (SGCU)	ND	0.99
Motor Oil C24-C36 (SGCU)	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	98	56-141

Y= Sample exhibits chromatographic pattern which does not resemble standard
DO= Diluted Out
ND= Not Detected
RL= Reporting Limit
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	SHAKER TABLE
Project#:	08-616-A	Analysis:	EPA 8015B
Field ID:	WP5-S5-25.0	Batch#:	148162
MSS Lab ID:	210138-029	Sampled:	02/18/09
Matrix:	Soil	Received:	02/18/09
Units:	mg/Kg	Prepared:	02/22/09
Basis:	as received	Analyzed:	02/24/09
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC484344

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24 (SGCU)	0.1038	49.97	34.17	68	38-140

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	67	56-141

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC484345

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24 (SGCU)	49.94	30.75	61	38-140	10	49

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	59	56-141

RPD= Relative Percent Difference
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 3550B
Project#:	08-616-A	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC484514	Batch#:	148203
Matrix:	Soil	Prepared:	02/23/09
Units:	mg/Kg	Analyzed:	02/23/09
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24 (SGCU)	50.00	42.42	85	51-123

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	82	56-141

SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 3550B
Project#:	08-616-A	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	148203
MSS Lab ID:	209897-005	Sampled:	02/09/09
Matrix:	Soil	Received:	02/10/09
Units:	mg/Kg	Prepared:	02/23/09
Basis:	as received	Analyzed:	02/24/09
Diln Fac:	1.000		

Type: MS Lab ID: QC484515

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	7.901	50.00	58.24	101	38-140

Surrogate	%REC	Limits
o-Terphenyl	93	56-141

Type: MSD Lab ID: QC484516

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.99	47.32	79	38-140	21	49

Surrogate	%REC	Limits
o-Terphenyl	78	56-141

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	SHAKER TABLE
Project#:	08-616-A	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC484639	Batch#:	148230
Matrix:	Soil	Prepared:	02/24/09
Units:	mg/Kg	Analyzed:	02/26/09
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24 (SGCU)	49.78	38.47	77	51-123

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	92	56-141

SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	SHAKER TABLE
Project#:	08-616-A	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	148230
MSS Lab ID:	210173-001	Sampled:	02/17/09
Matrix:	Soil	Received:	02/19/09
Units:	mg/Kg	Prepared:	02/24/09
Basis:	as received	Analyzed:	02/26/09
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
Lab ID: QC484640

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24 (SGCU)	424.7	49.91	301.7	-246 NM	38-140

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	79	56-141

Type: MSD Cleanup Method: EPA 3630C
Lab ID: QC484641

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24 (SGCU)	49.98	269.2	-311 NM	38-140	11	49

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	92	56-141

NM= Not Meaningful: Sample concentration > 4X spike concentration
RPD= Relative Percent Difference
SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	SHAKER TABLE
Project#:	08-616-A	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC485183	Batch#:	148349
Matrix:	Soil	Prepared:	02/26/09
Units:	mg/Kg	Analyzed:	02/27/09
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24 (SGCU)	49.98	40.78	82	51-123

Surrogate	%REC	Limits
o-Terphenyl (SGCU)	73	56-141

SGCU= Silica gel cleanup

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	SHAKER TABLE
Project#:	08-616-A	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	148349
MSS Lab ID:	210172-035	Sampled:	02/19/09
Matrix:	Soil	Received:	02/19/09
Units:	mg/Kg	Prepared:	02/26/09
Basis:	as received	Analyzed:	02/27/09
Diln Fac:	5.000		

Type: MS Lab ID: QC485184

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	6.550	50.05	47.39	82	38-140

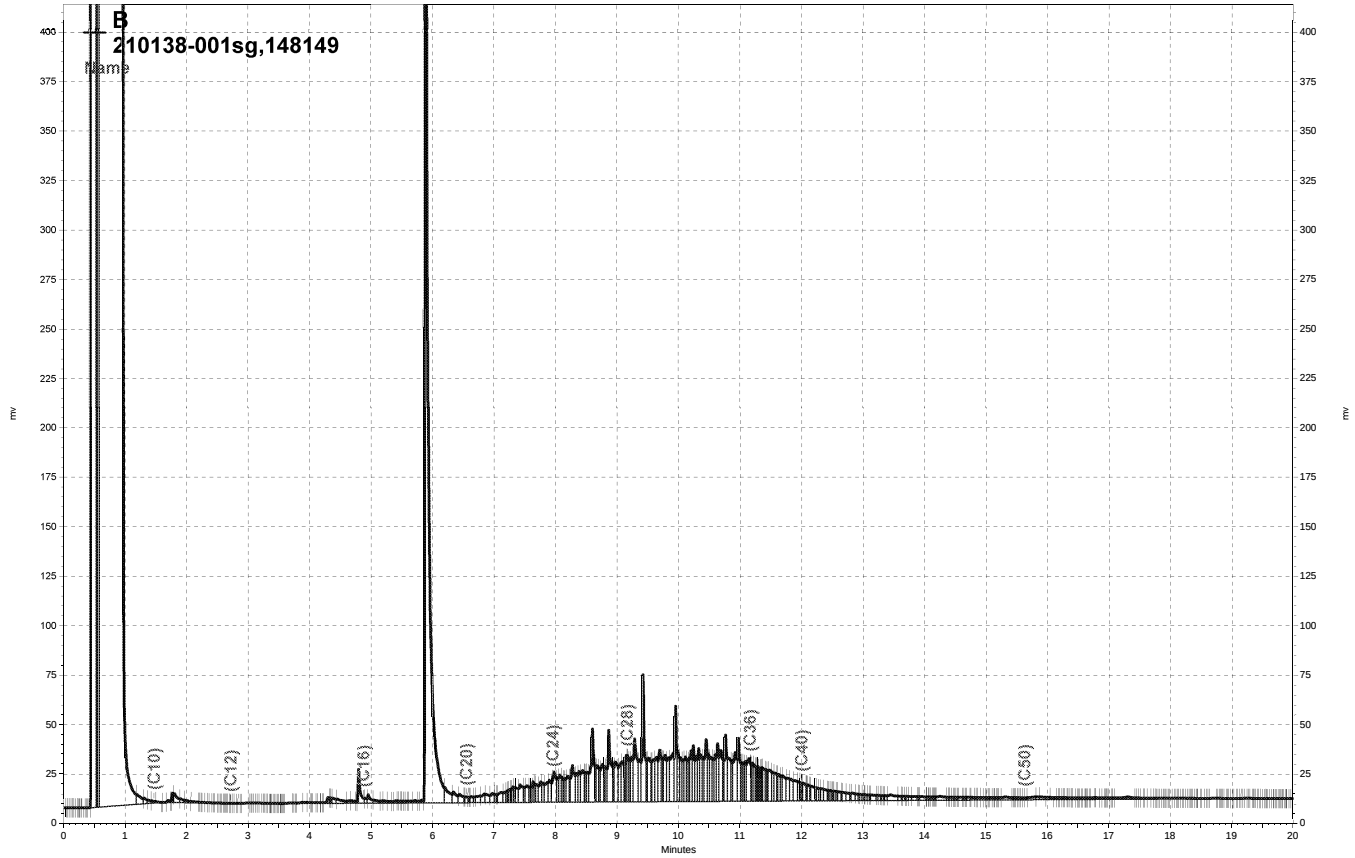
Surrogate	%REC	Limits
o-Terphenyl	66	56-141

Type: MSD Lab ID: QC485185

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.73	46.86	81	38-140	1	49

Surrogate	%REC	Limits
o-Terphenyl	67	56-141

RPD= Relative Percent Difference



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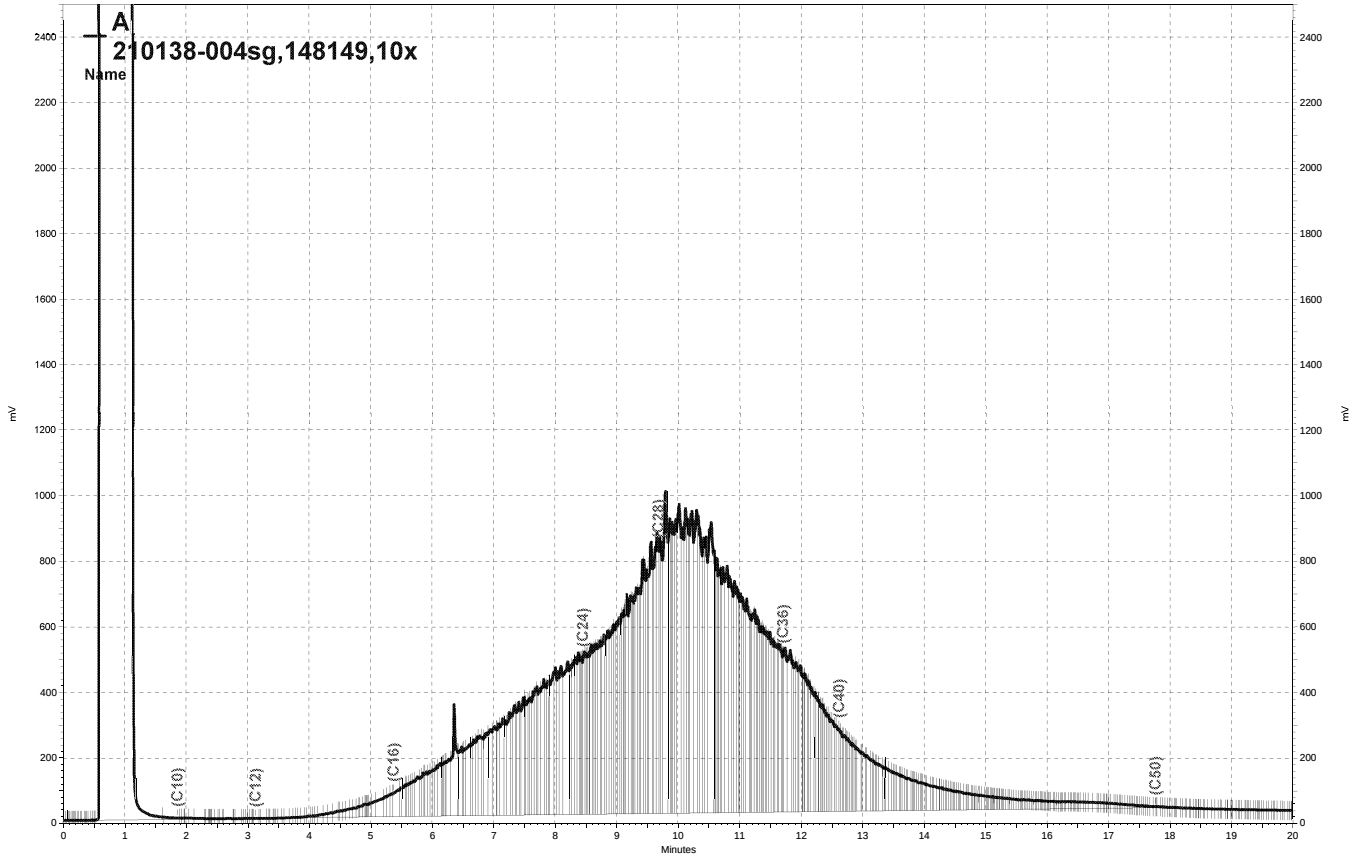

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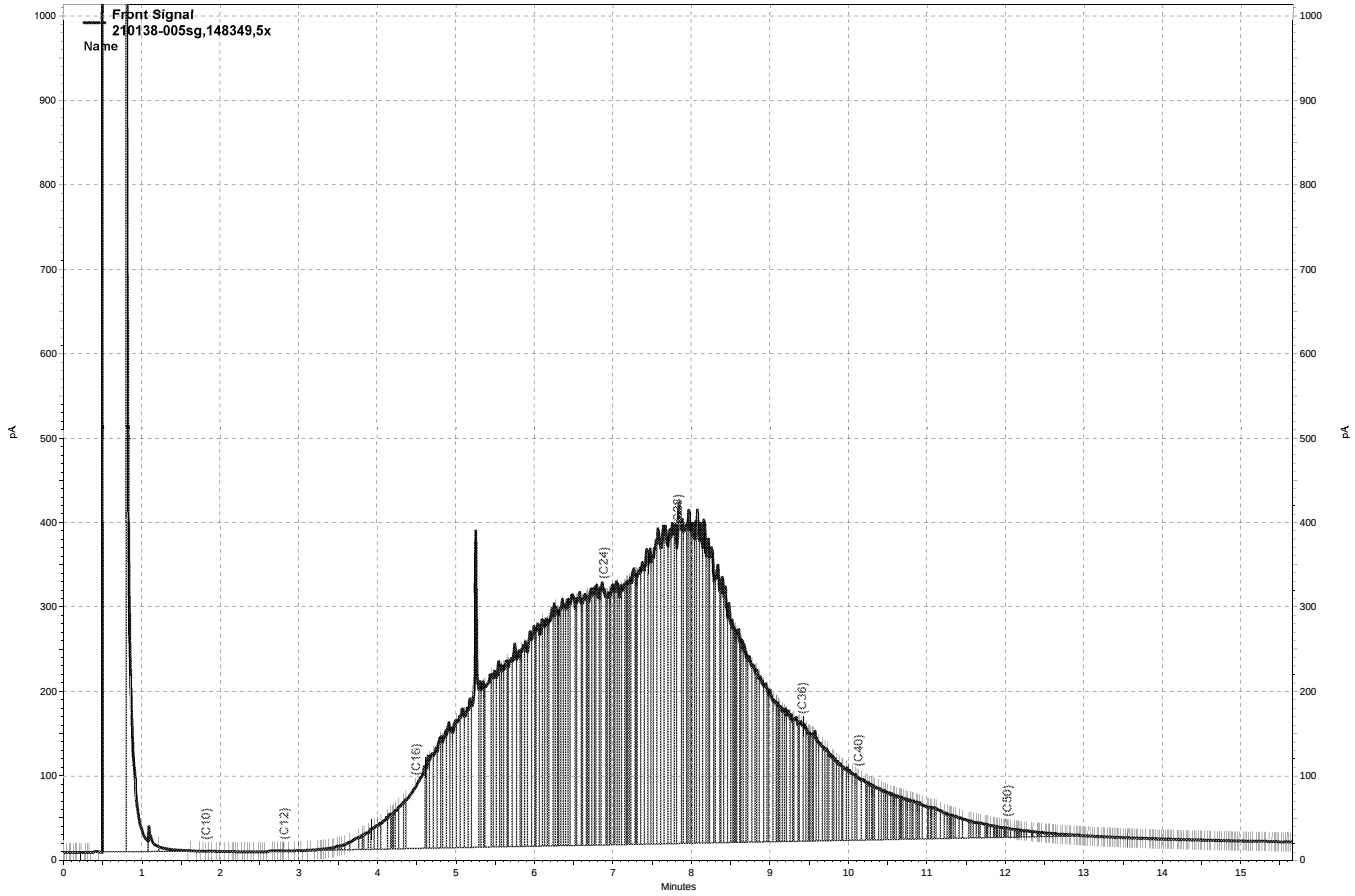

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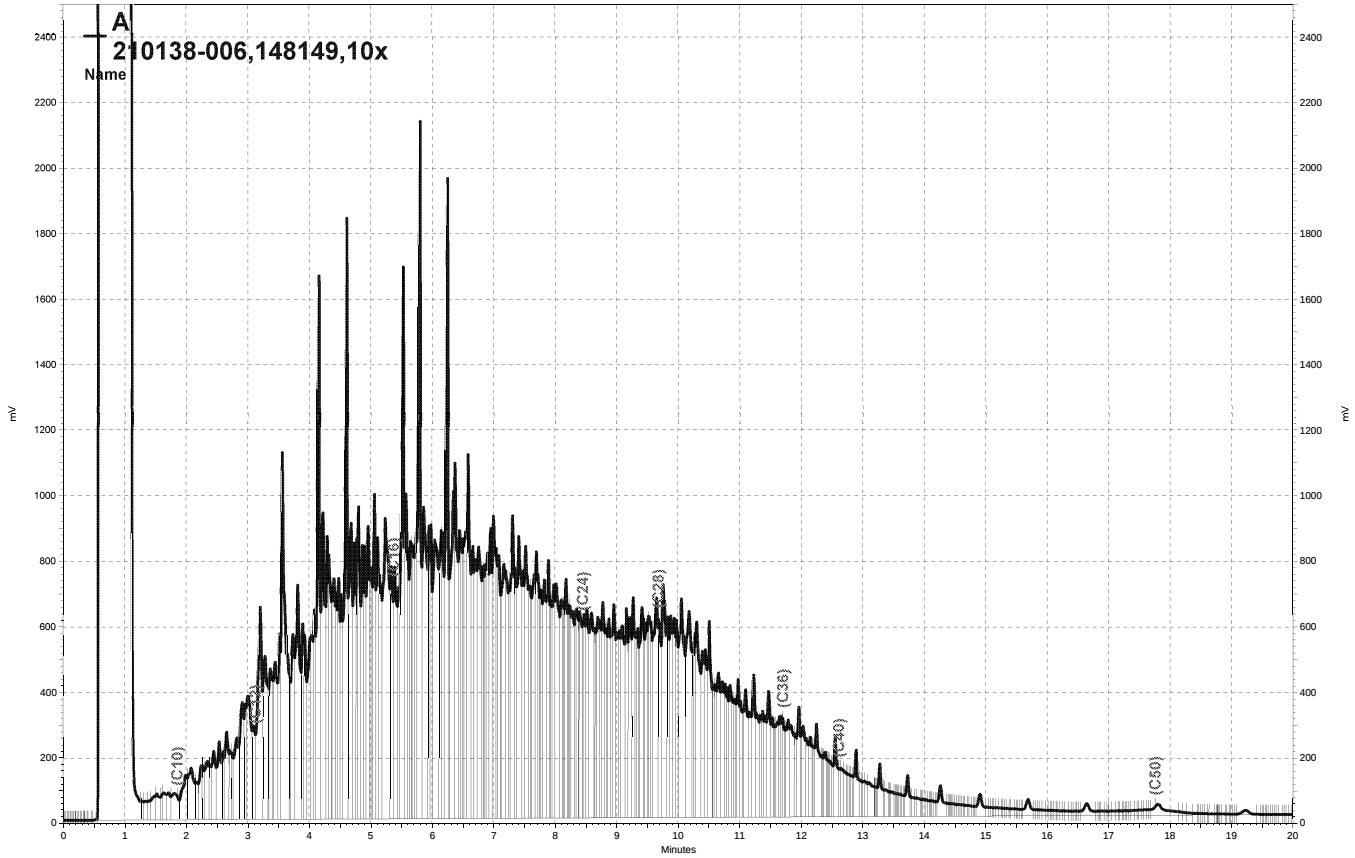

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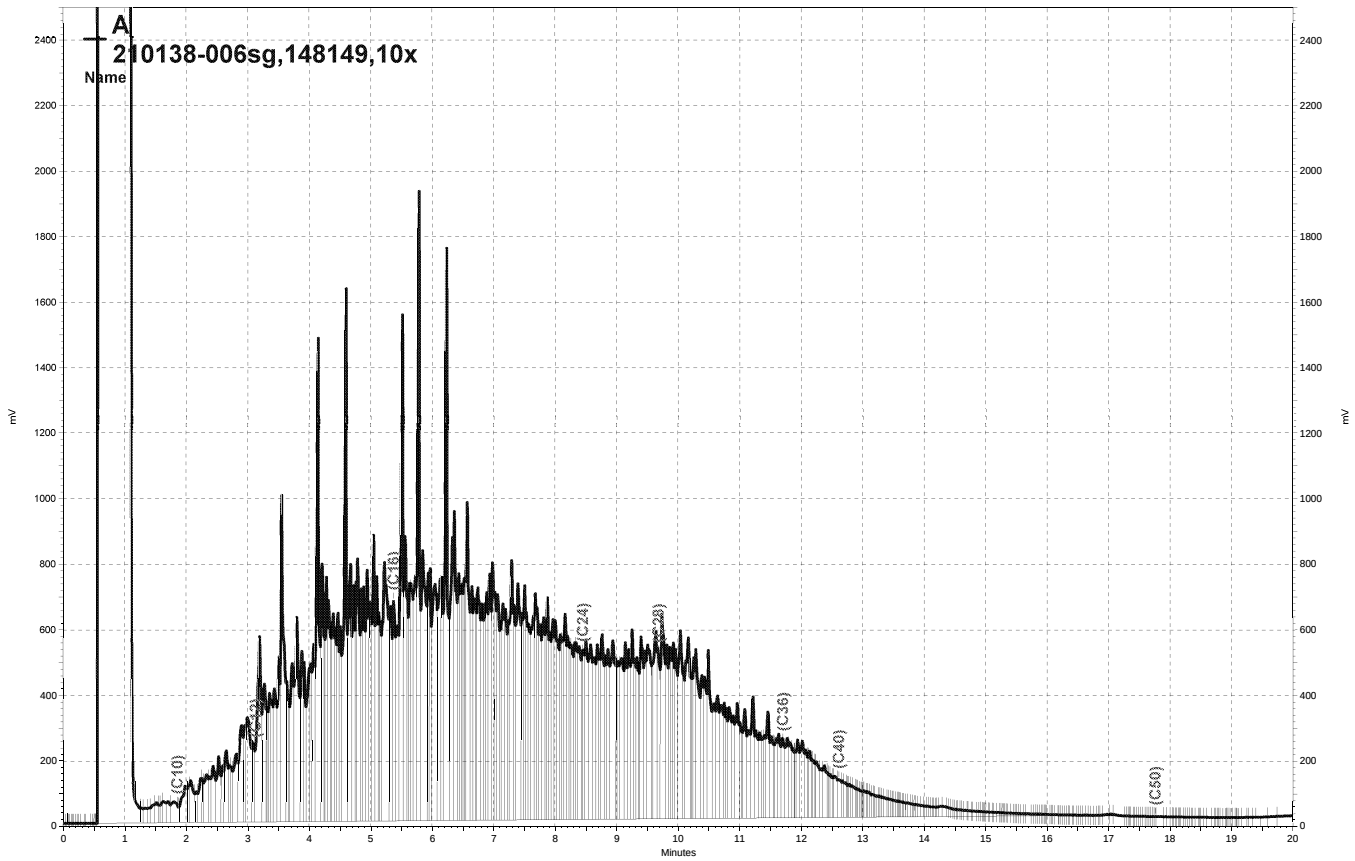

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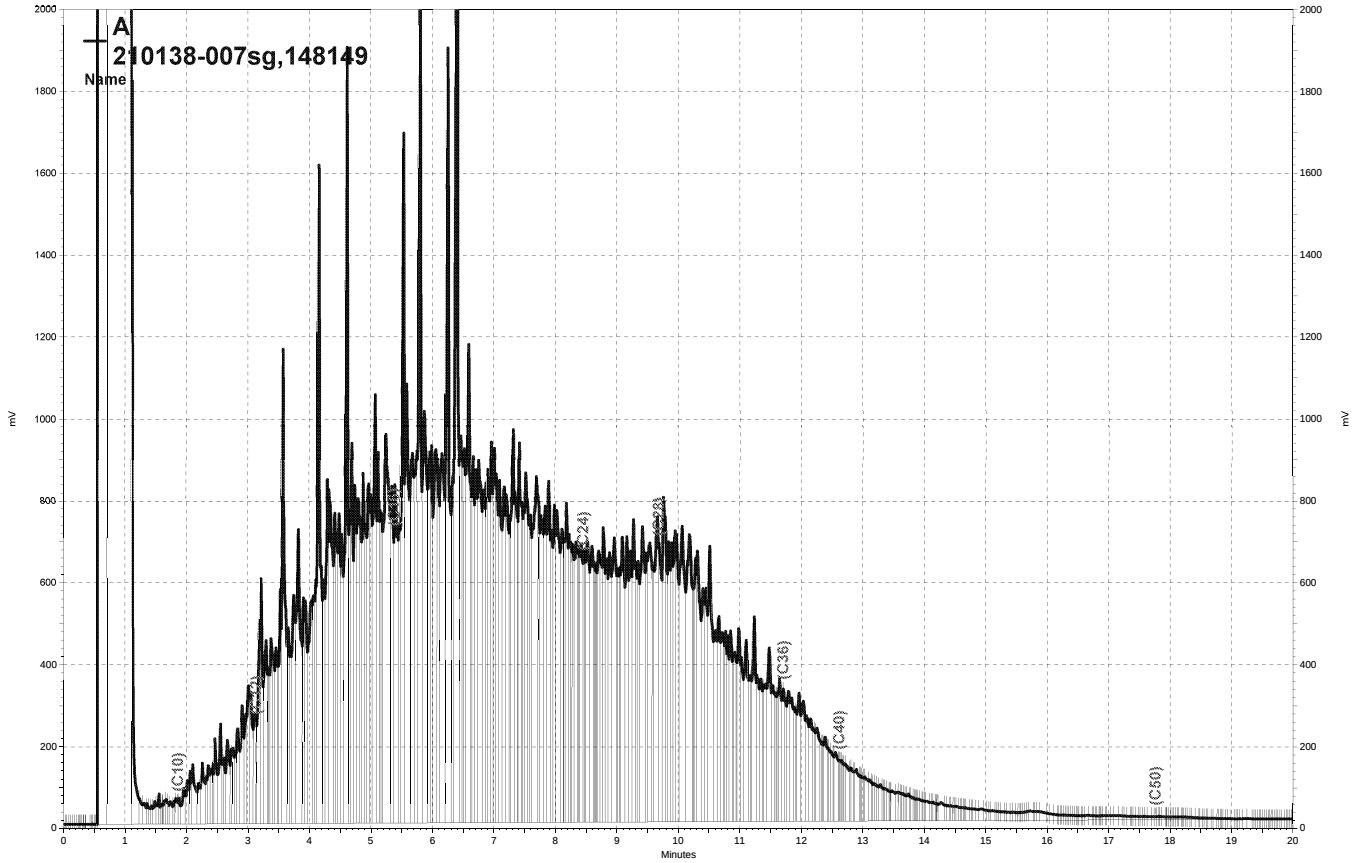

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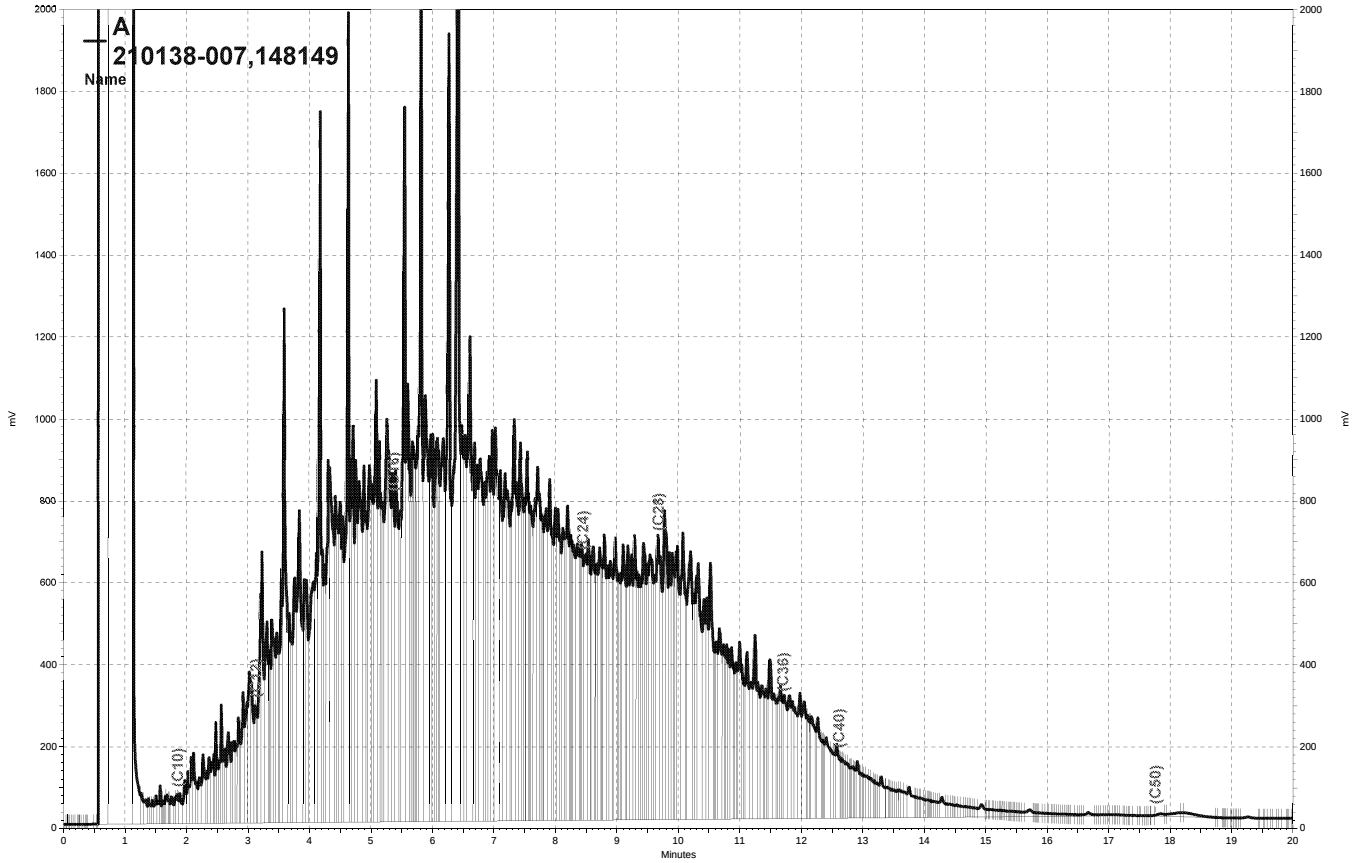

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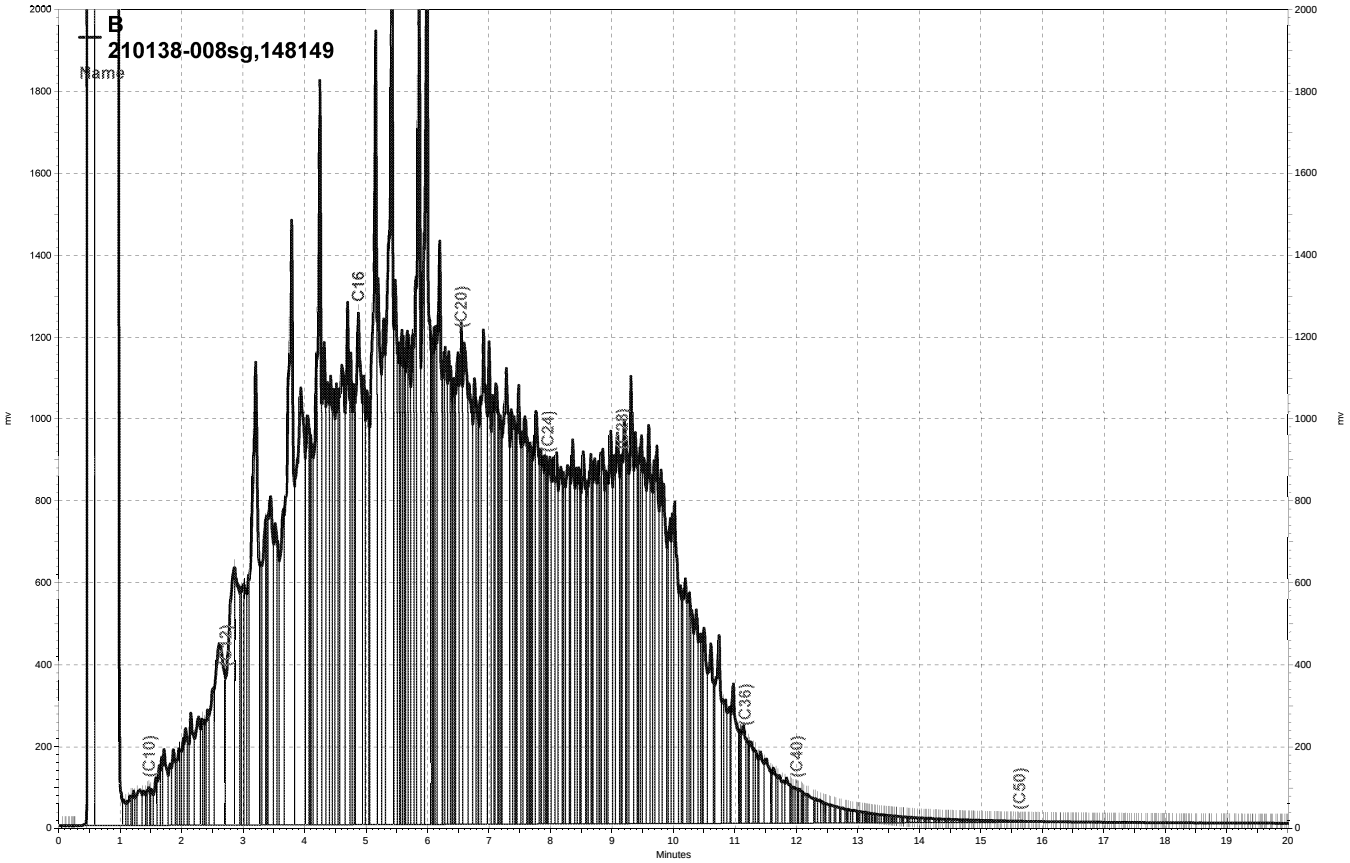

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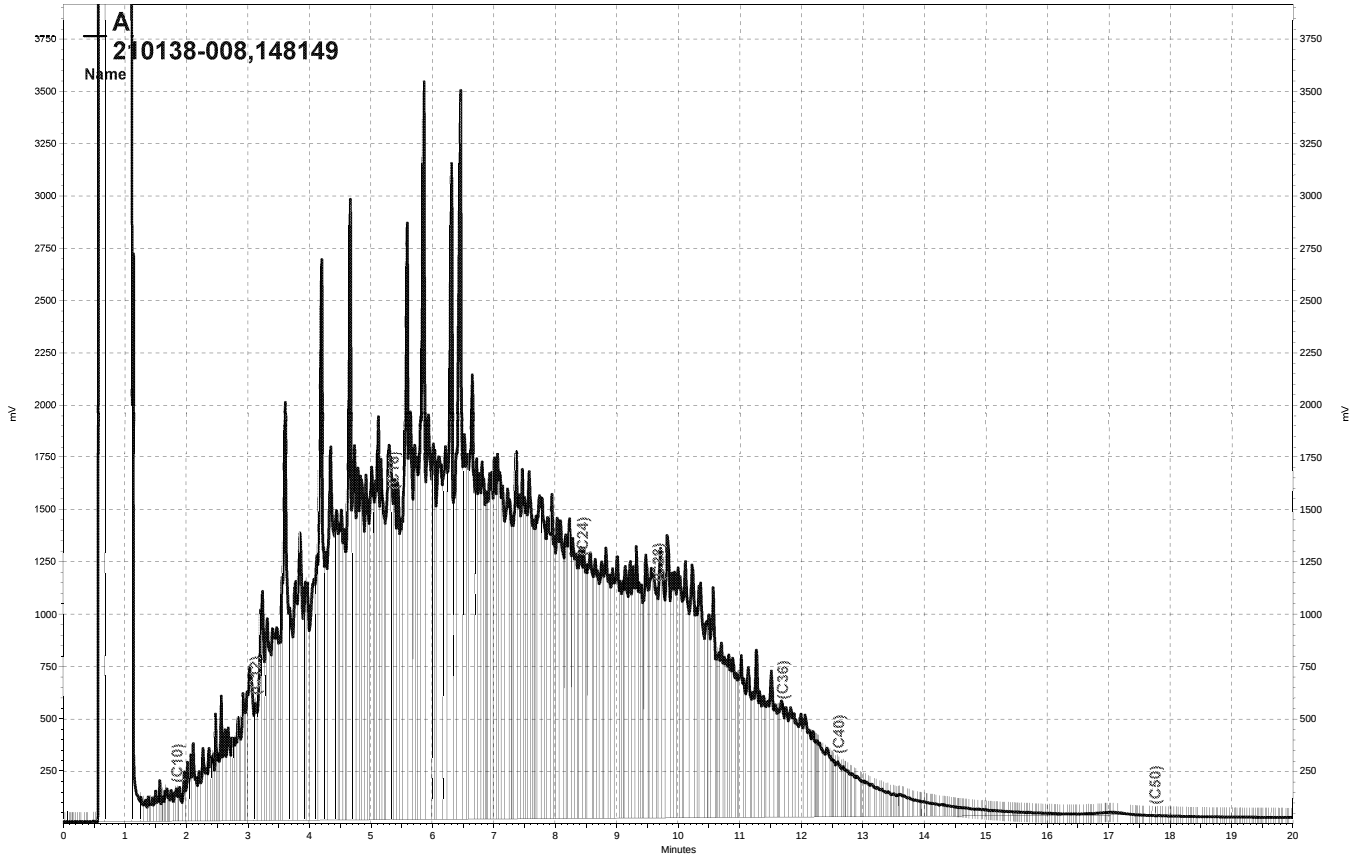

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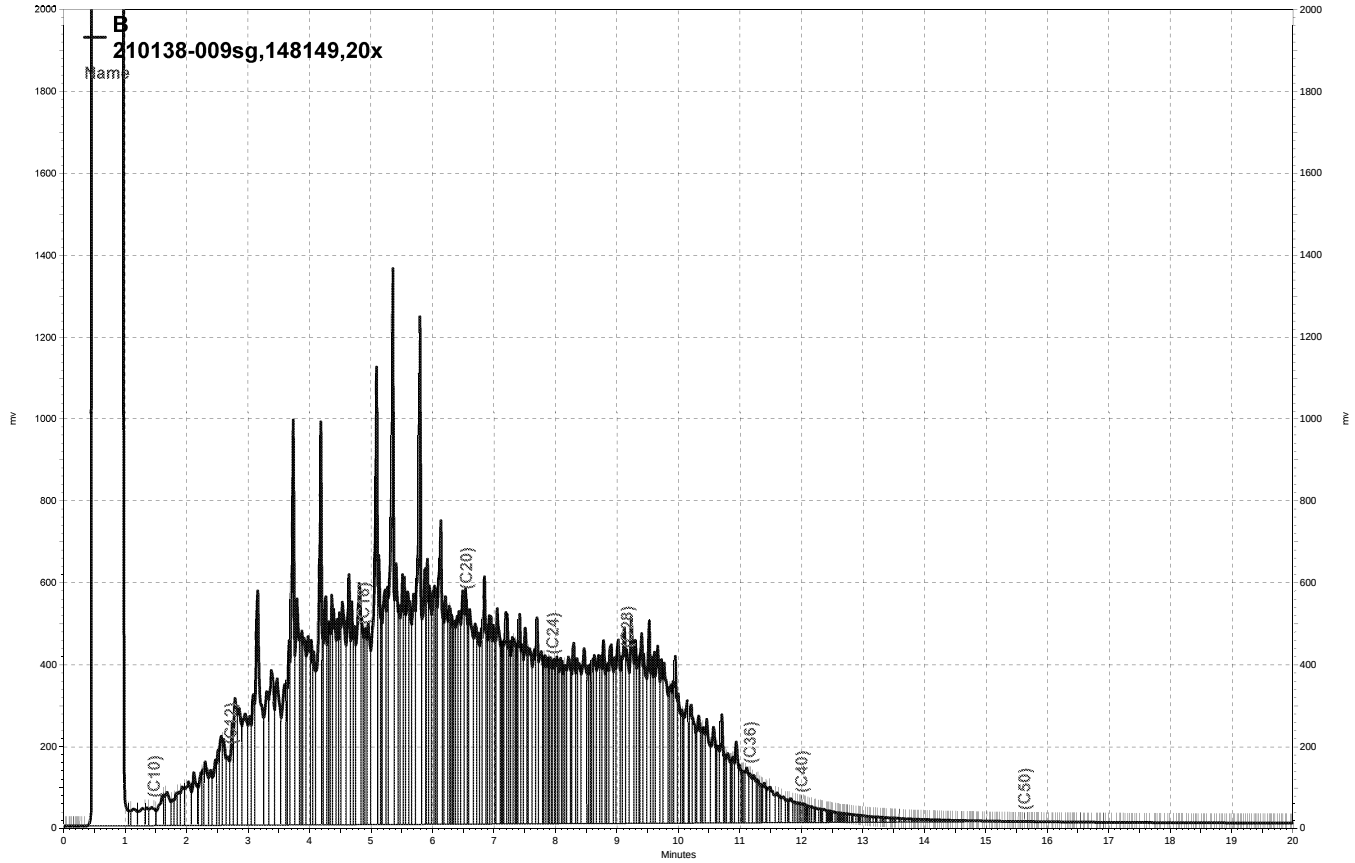

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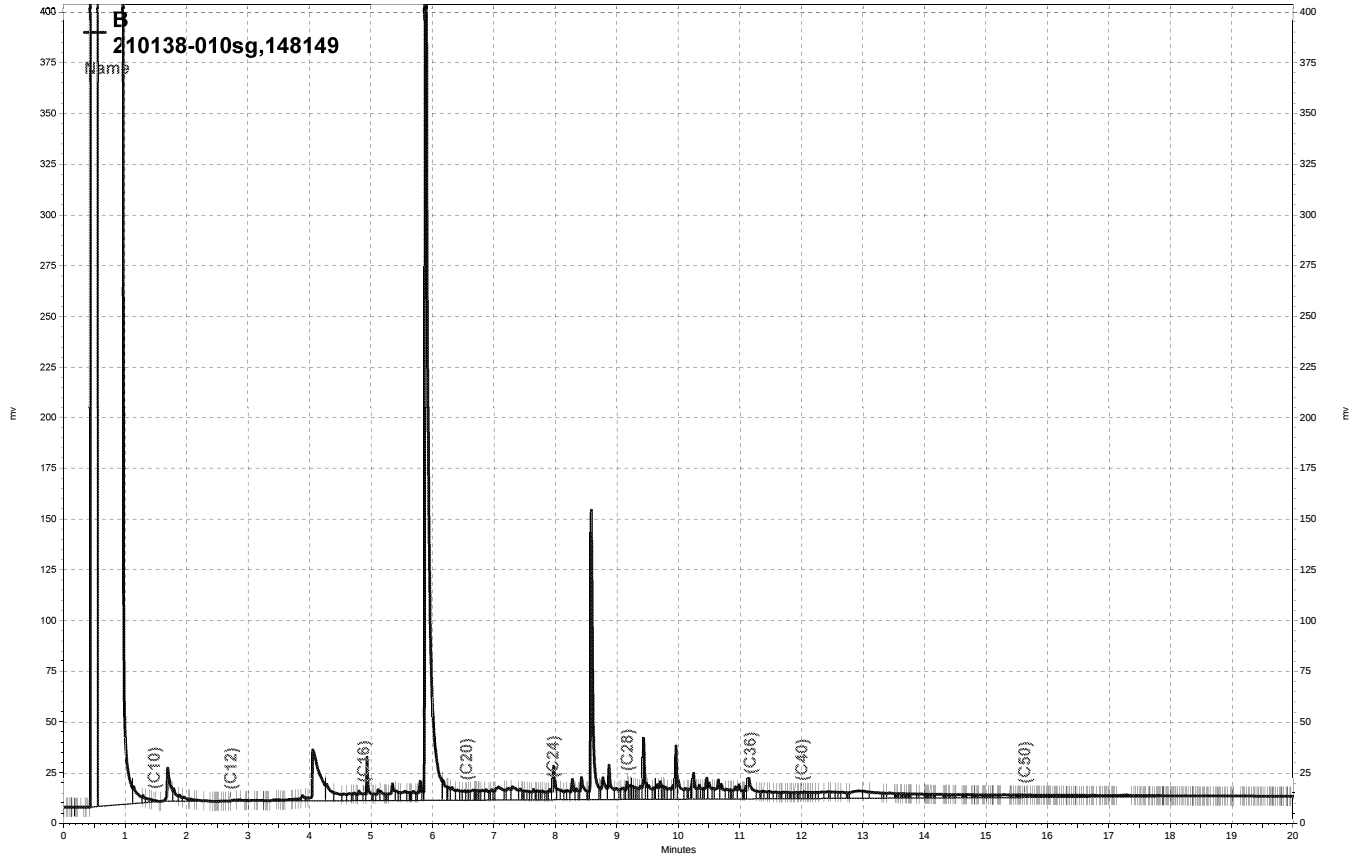

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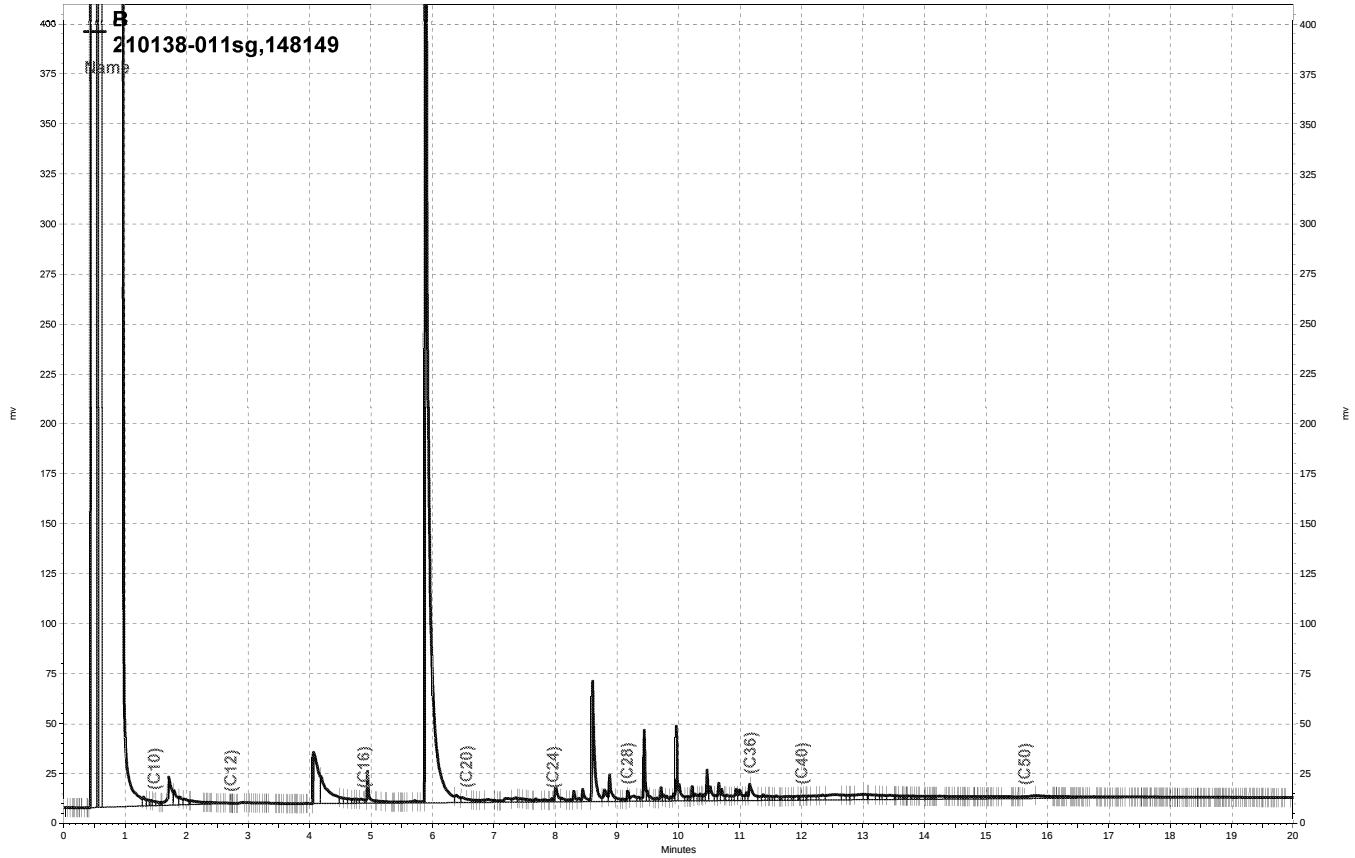

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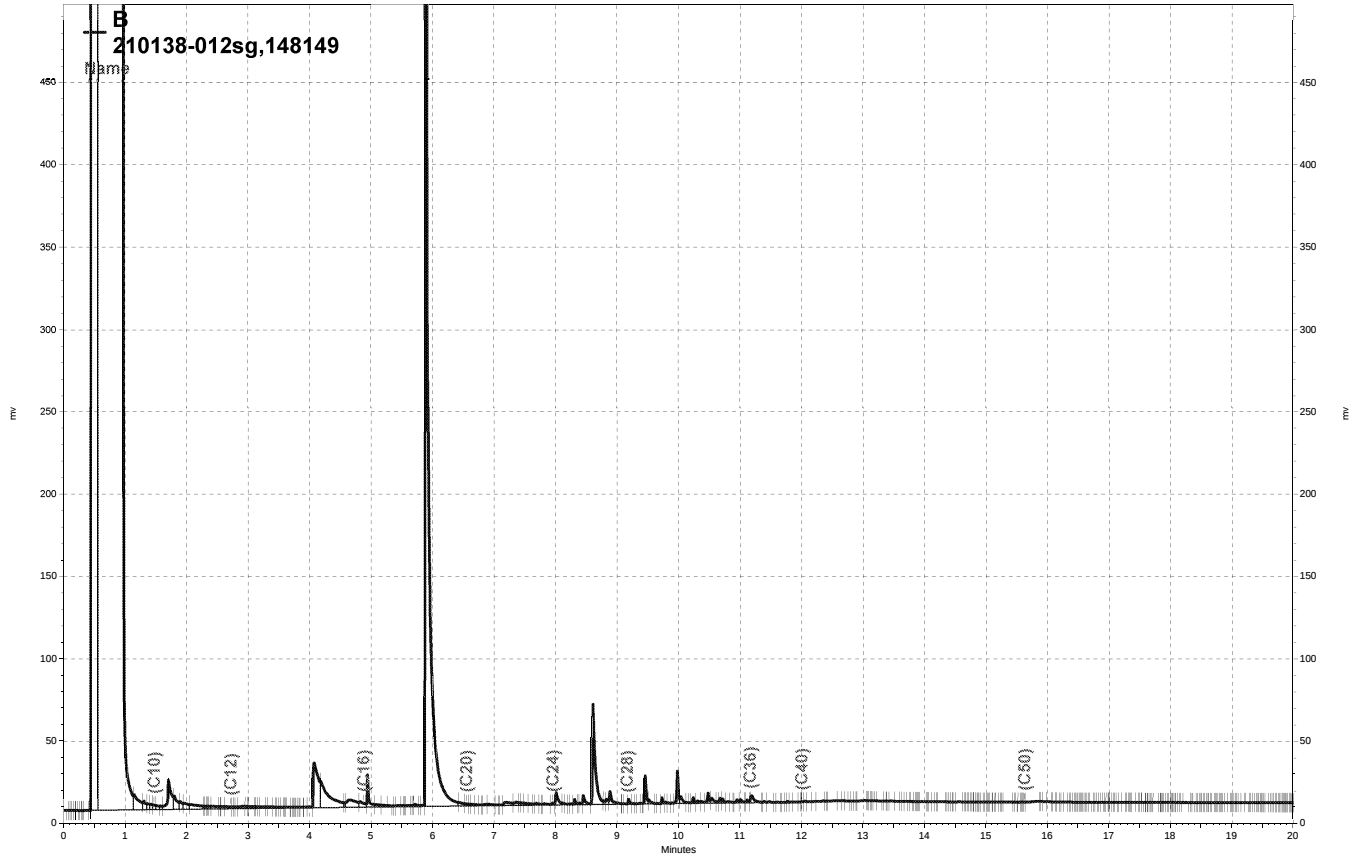

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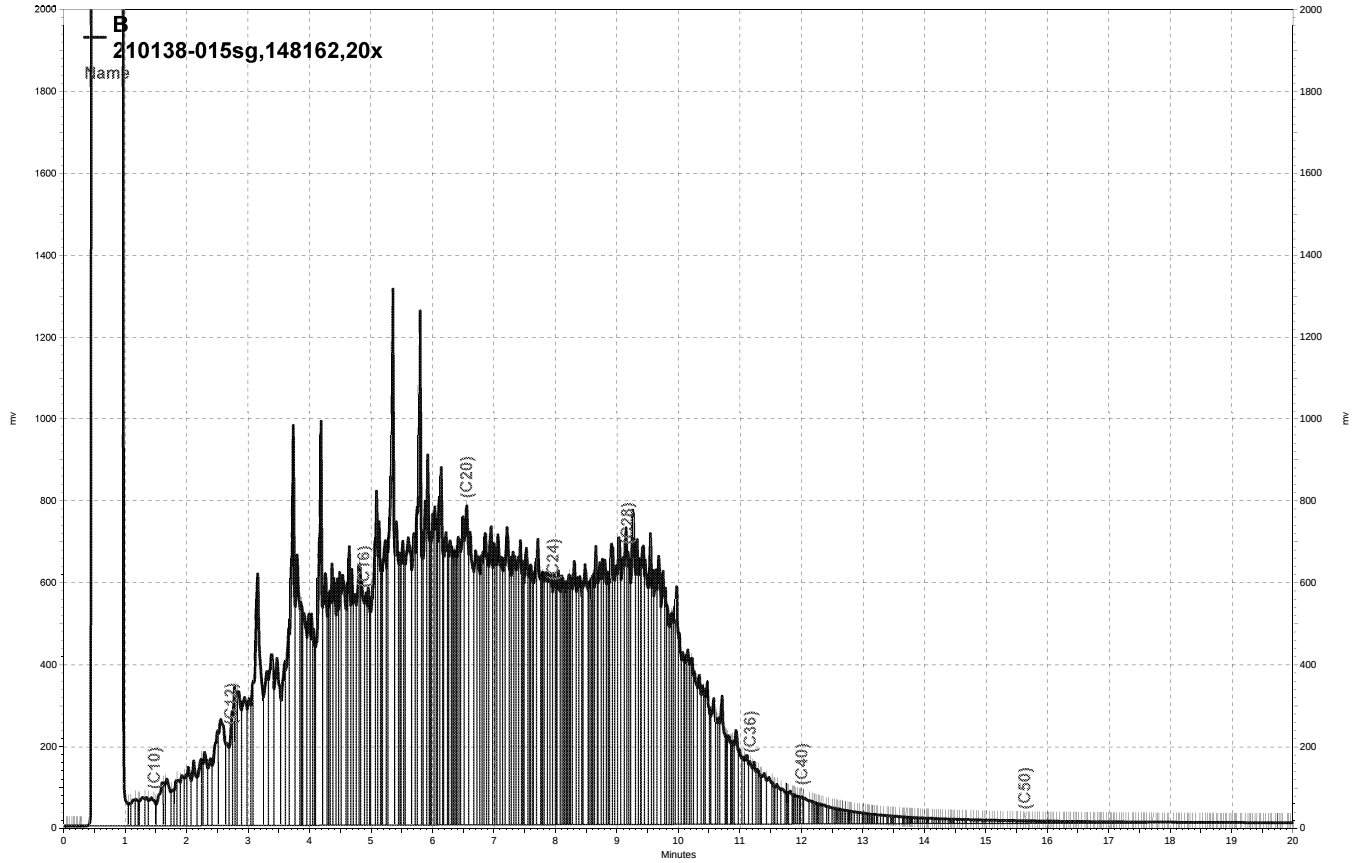

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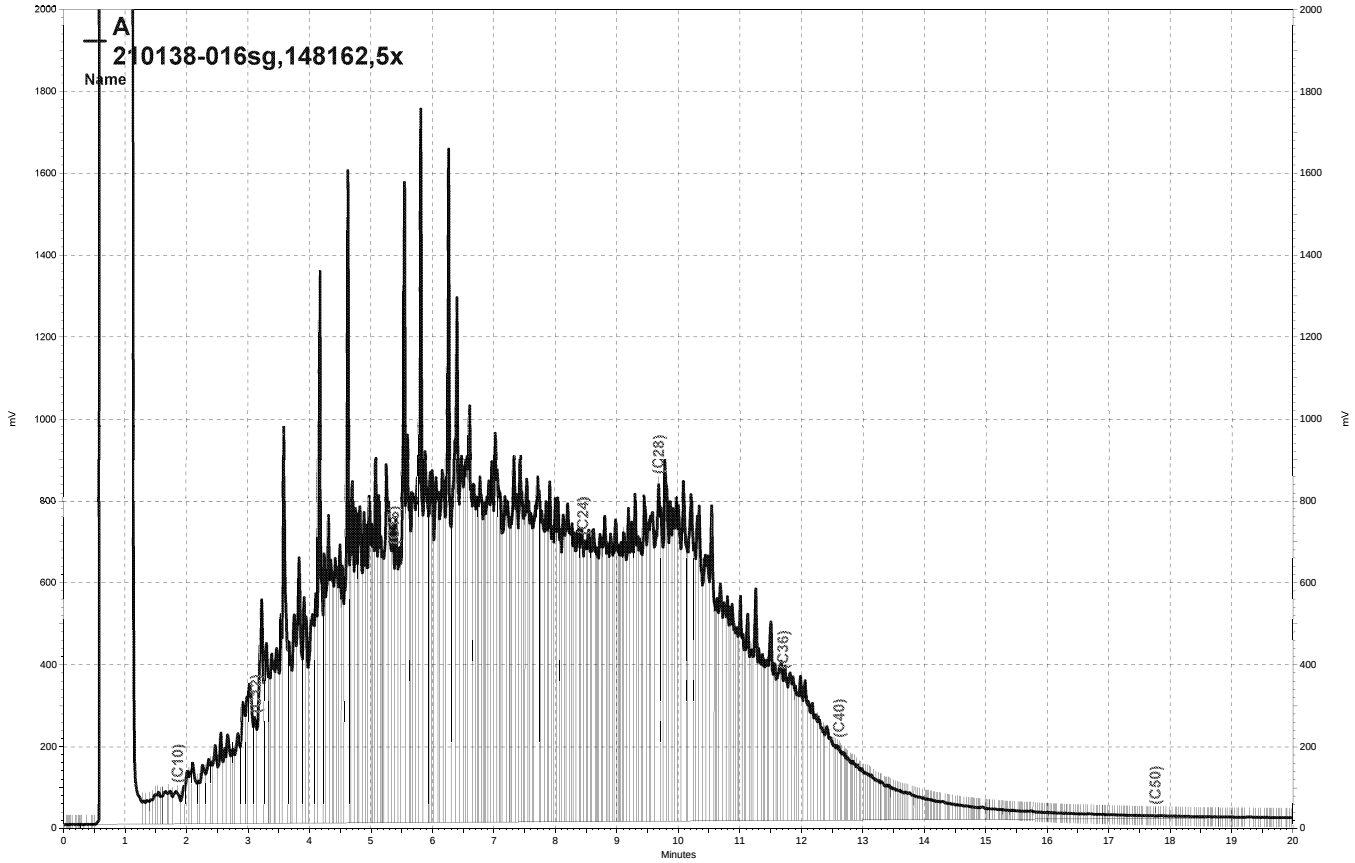

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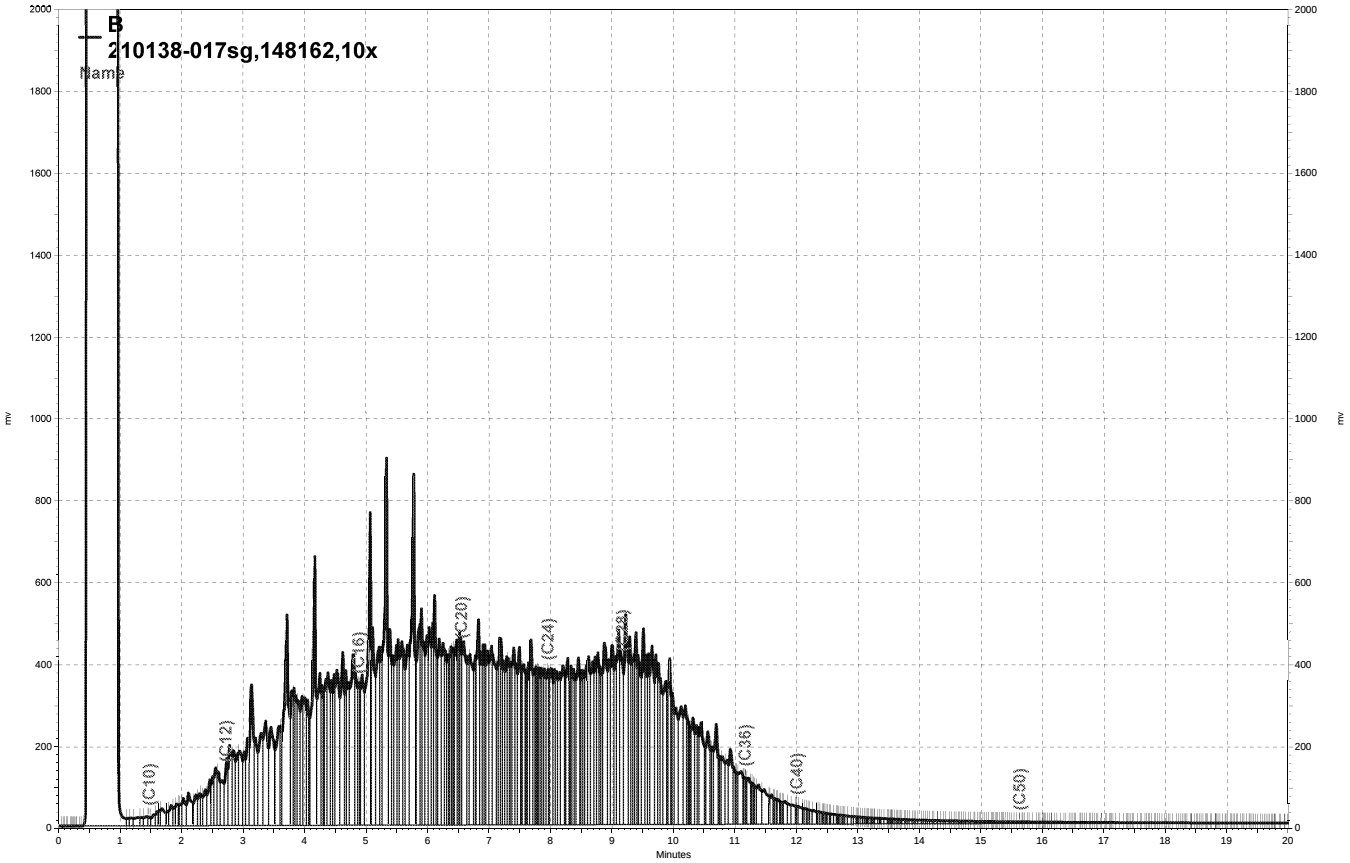

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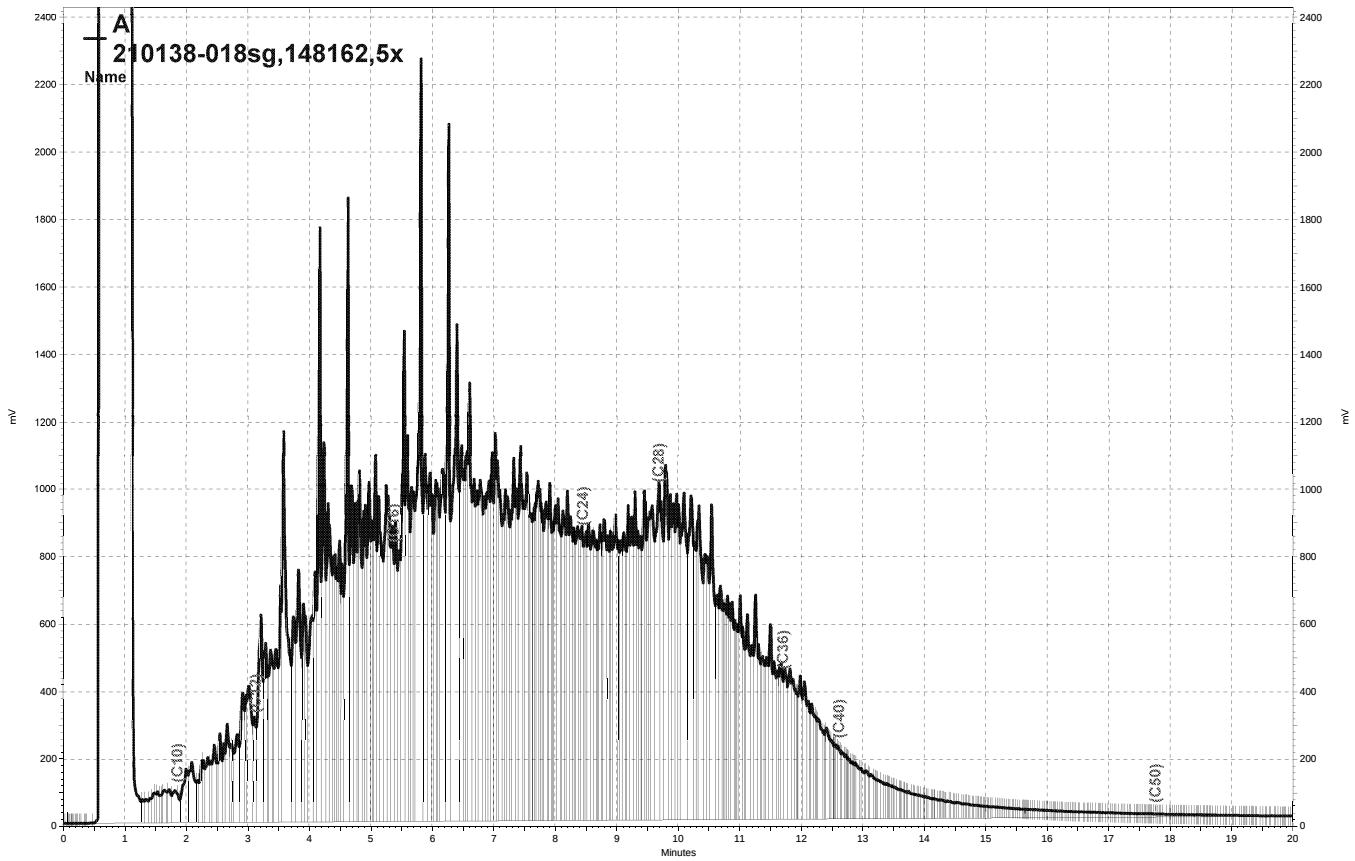

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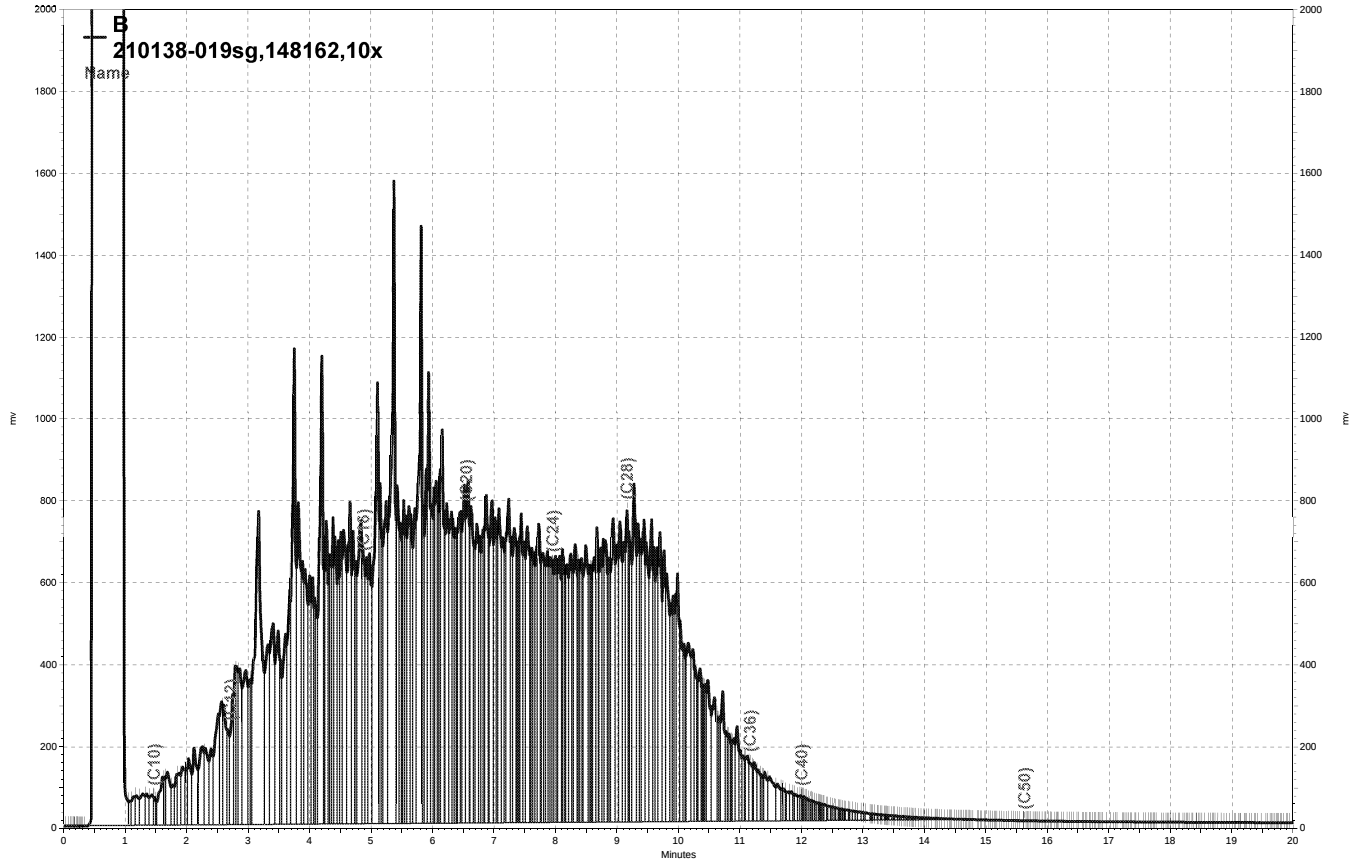

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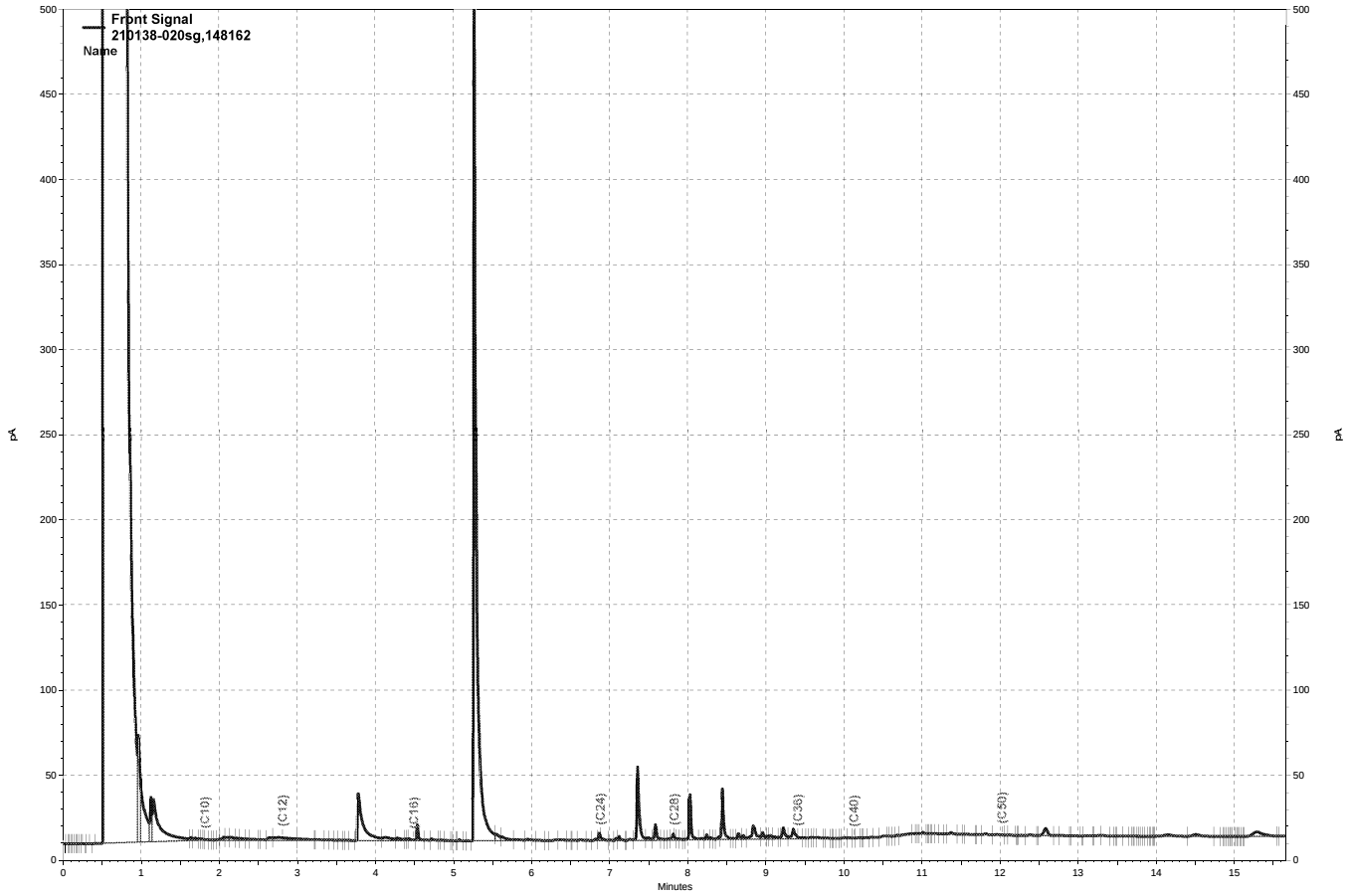

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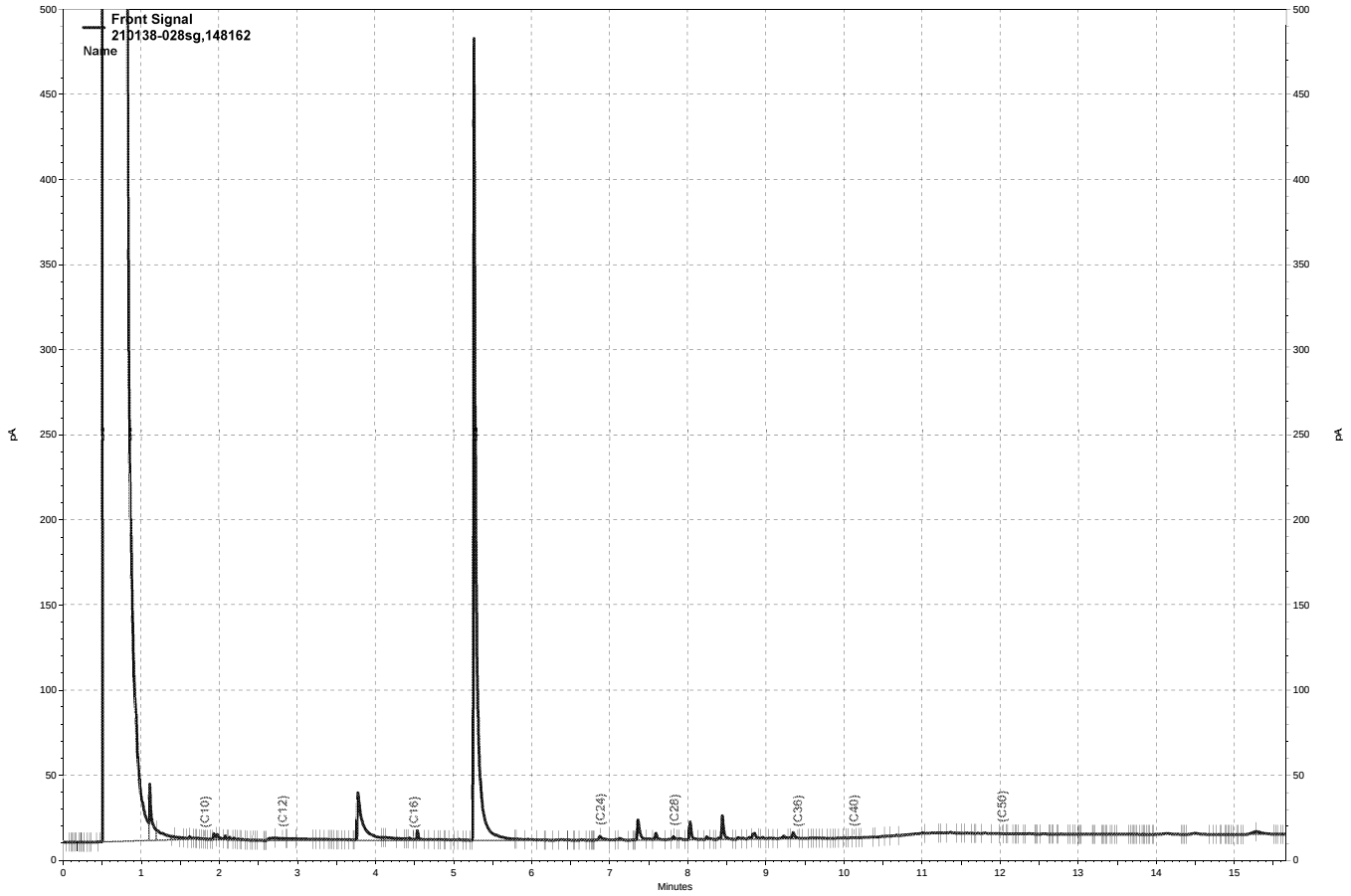

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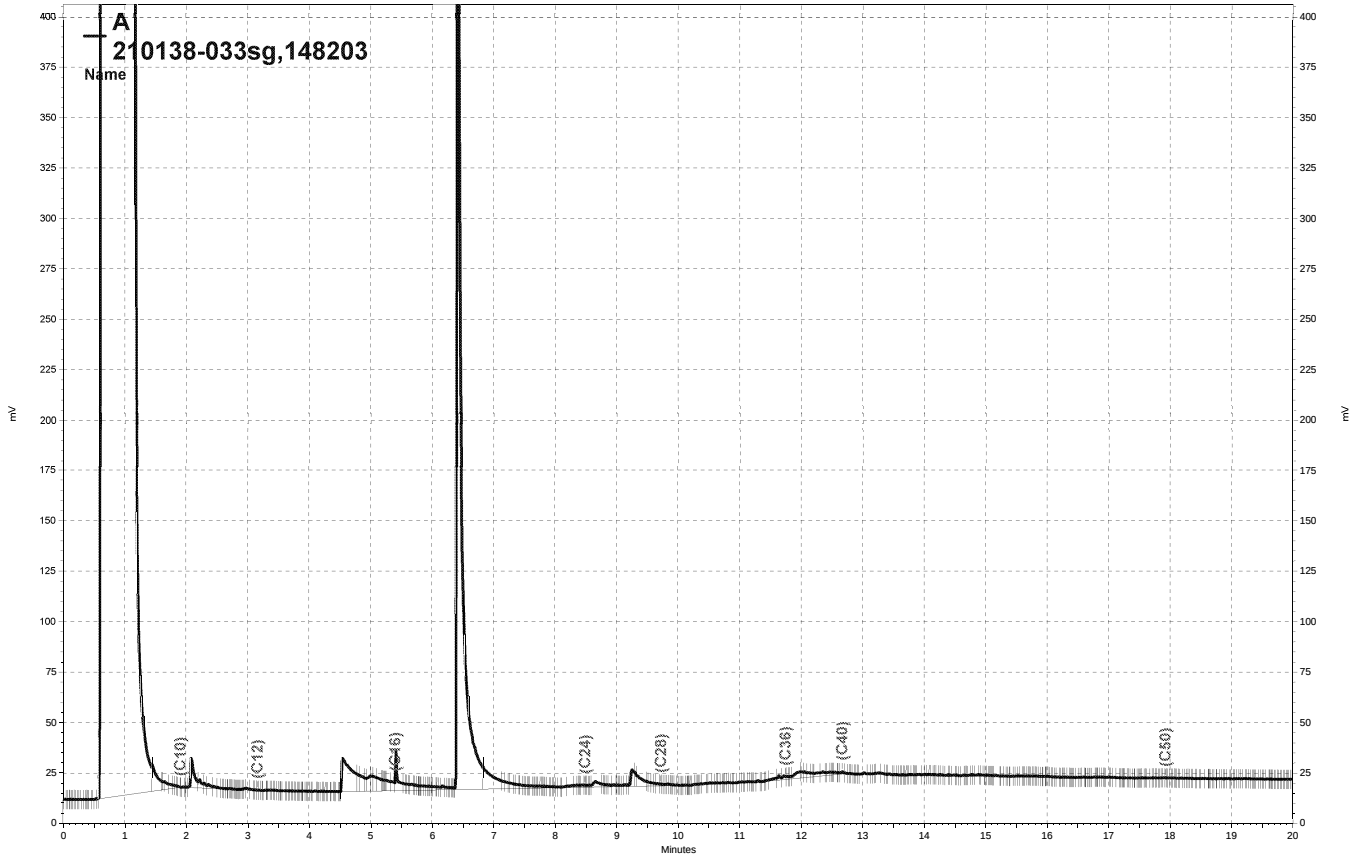

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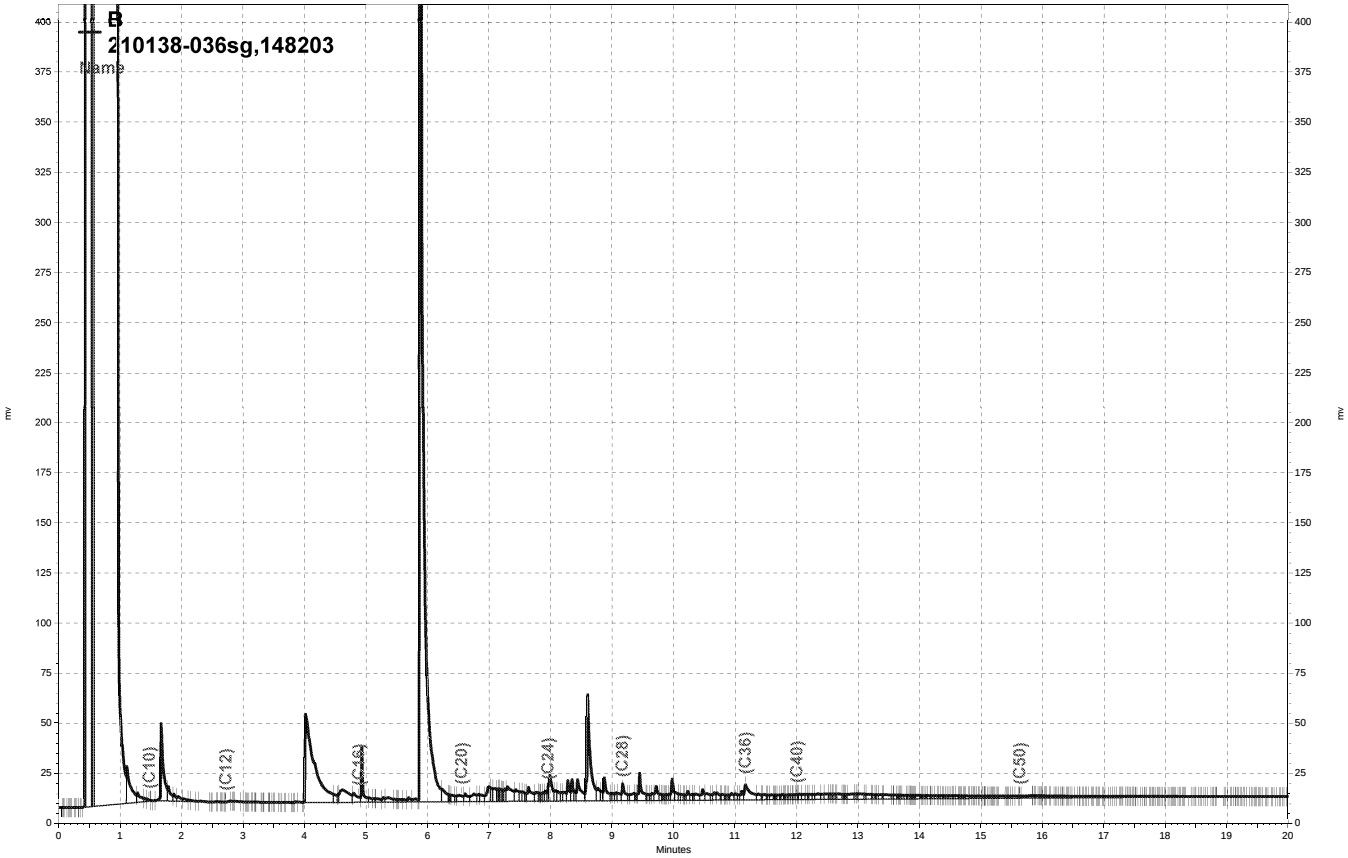

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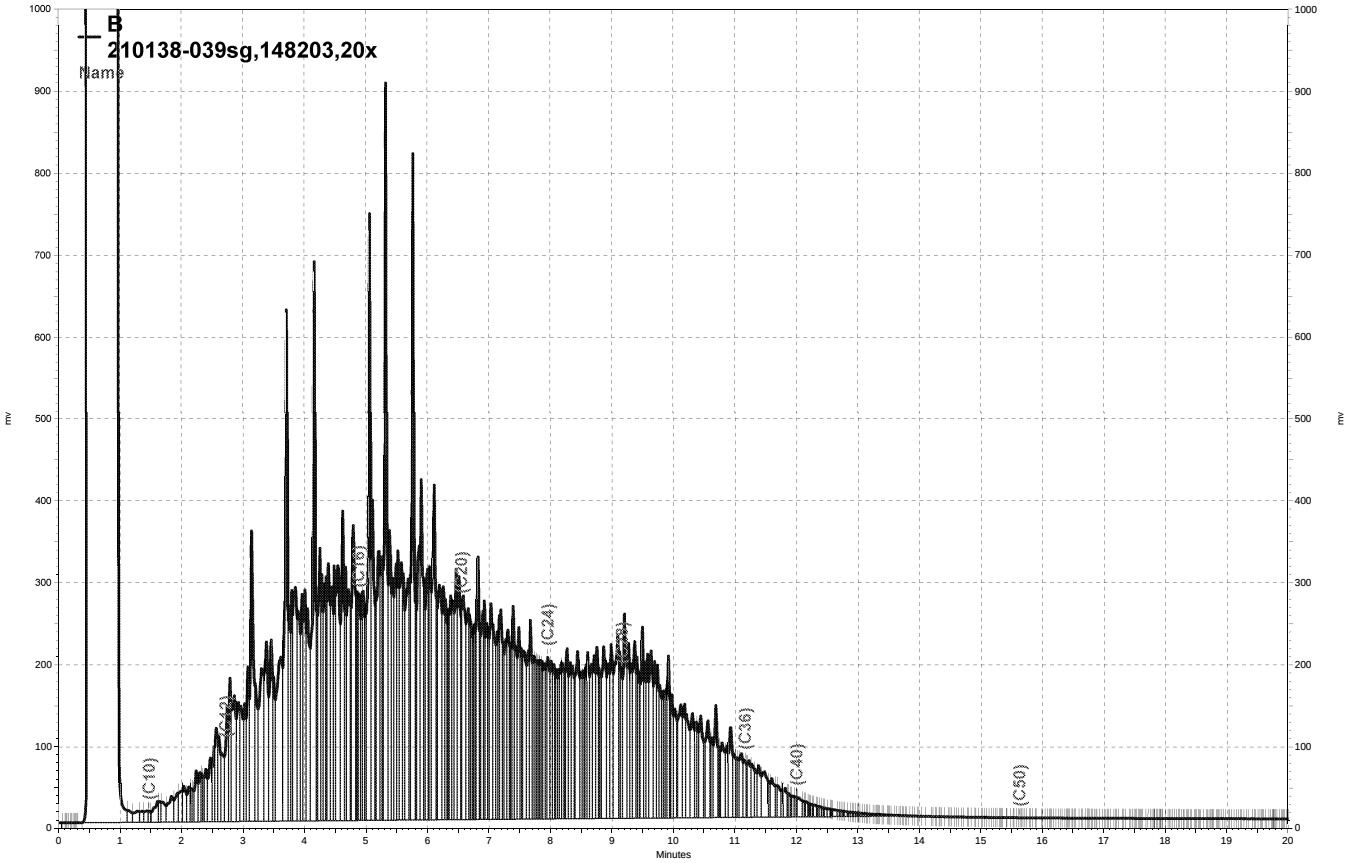

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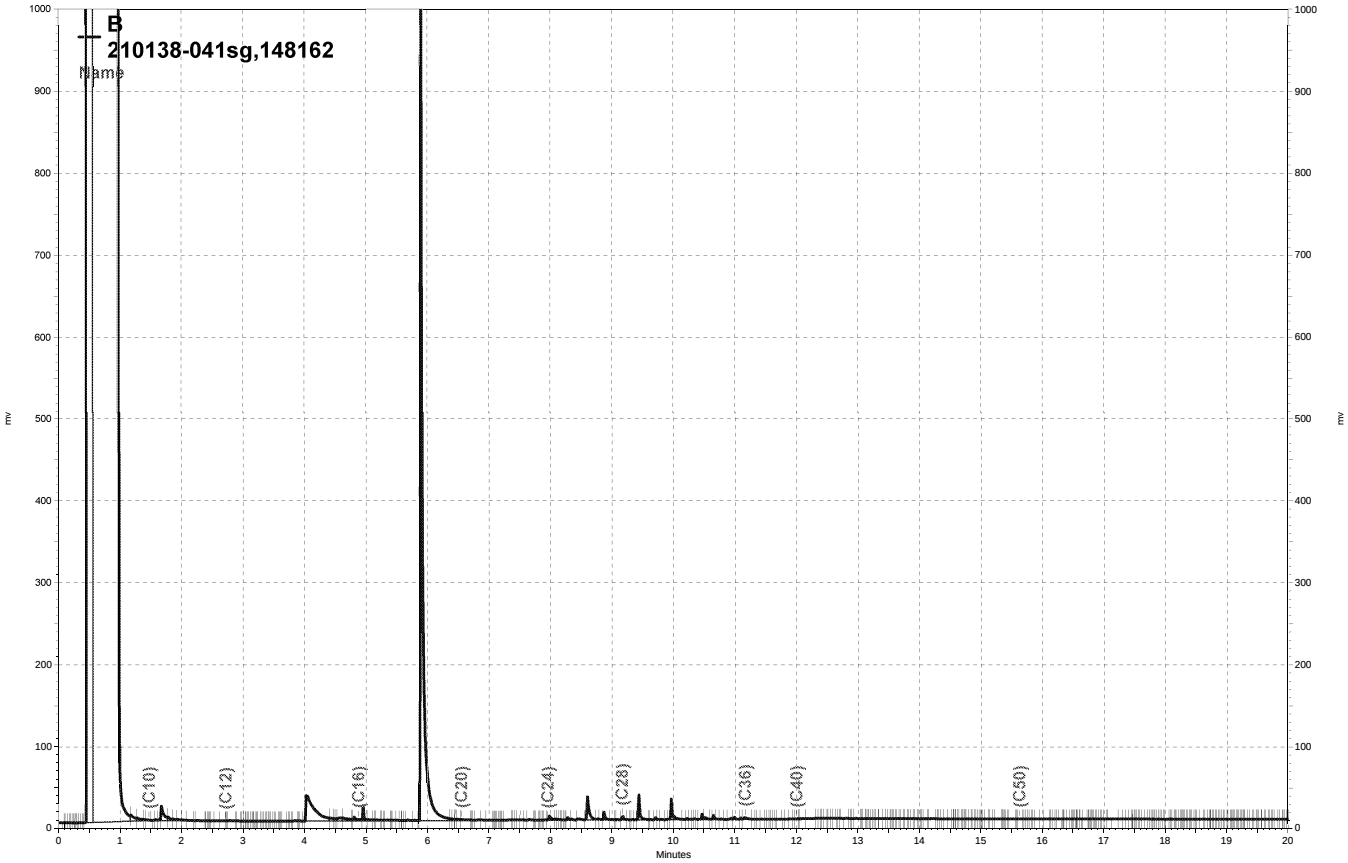

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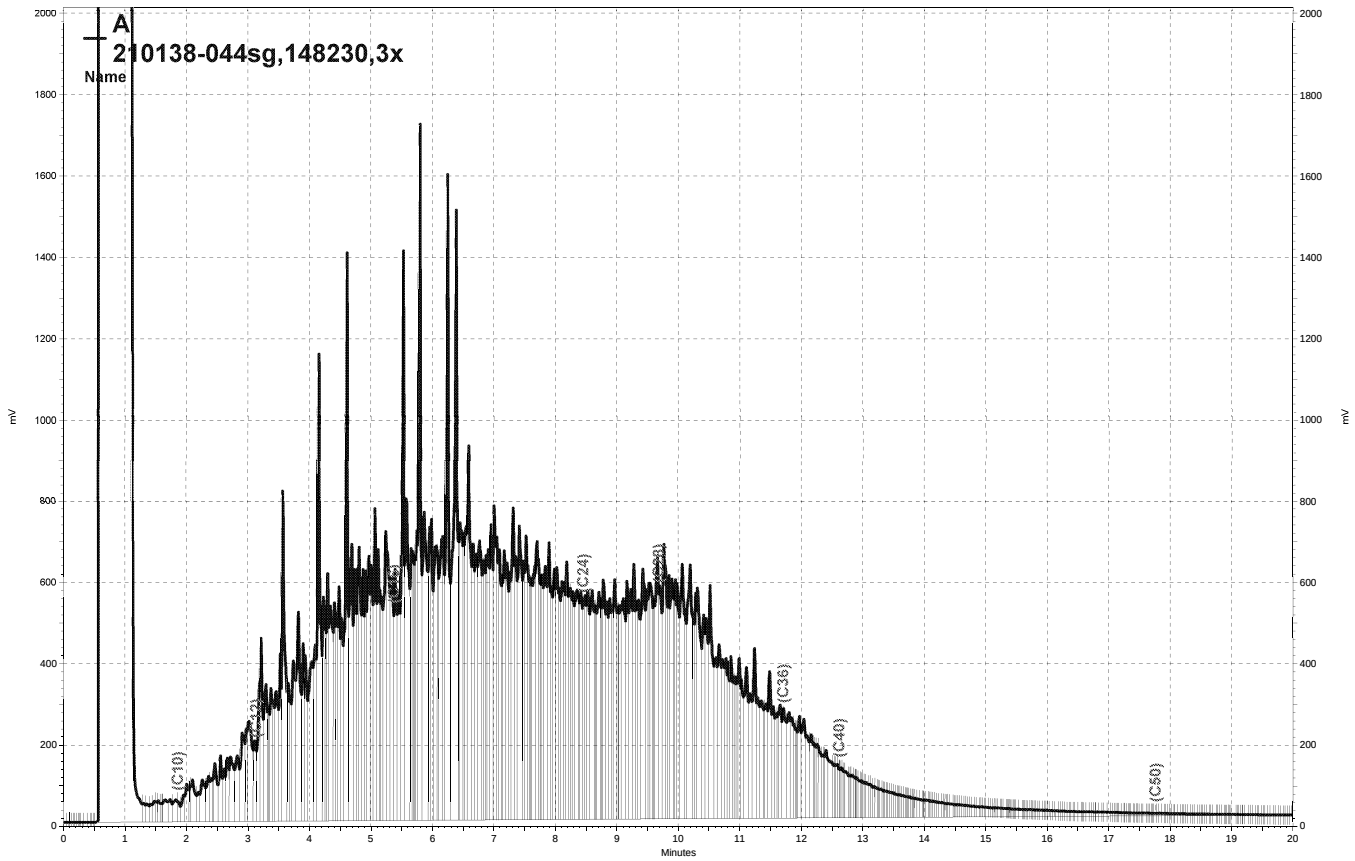

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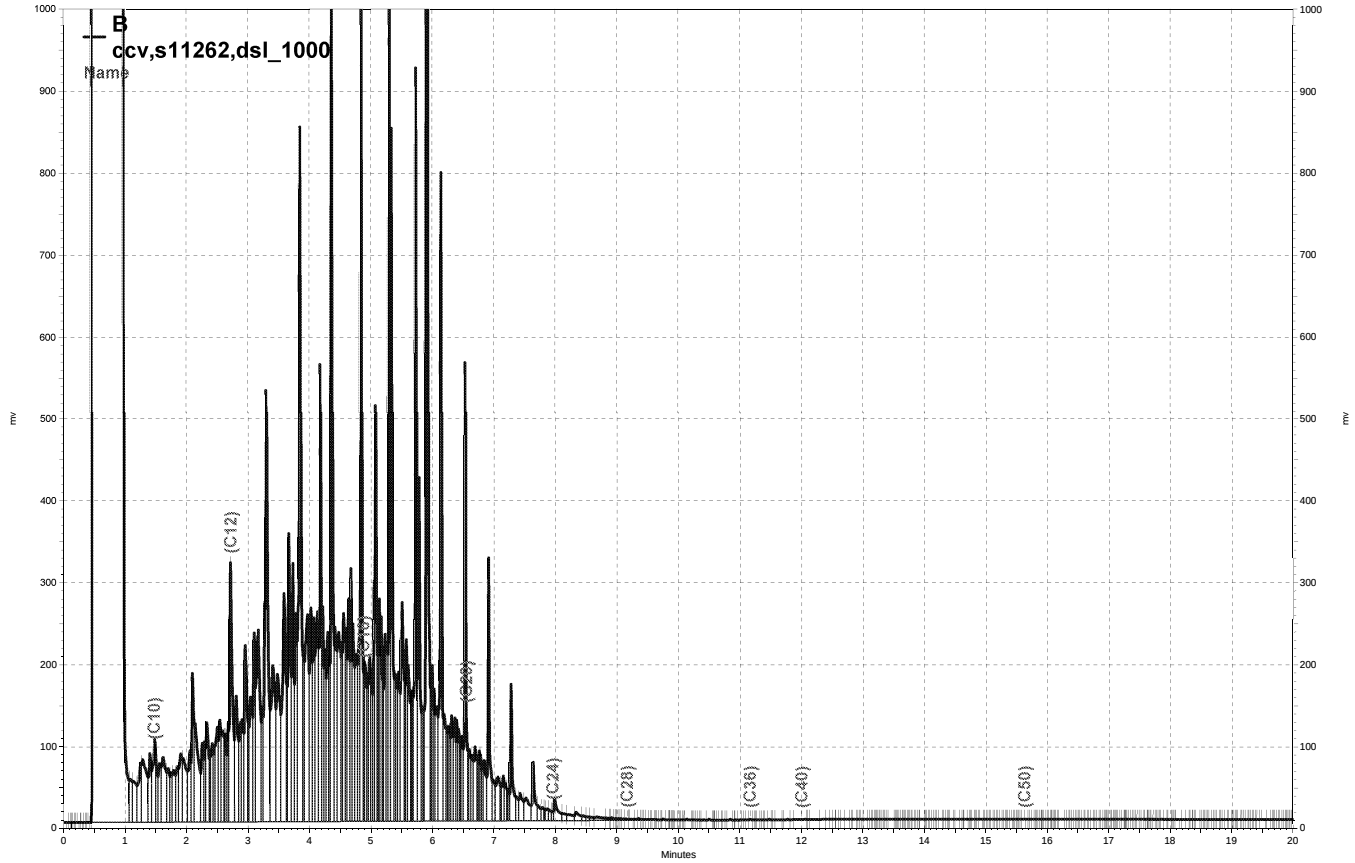

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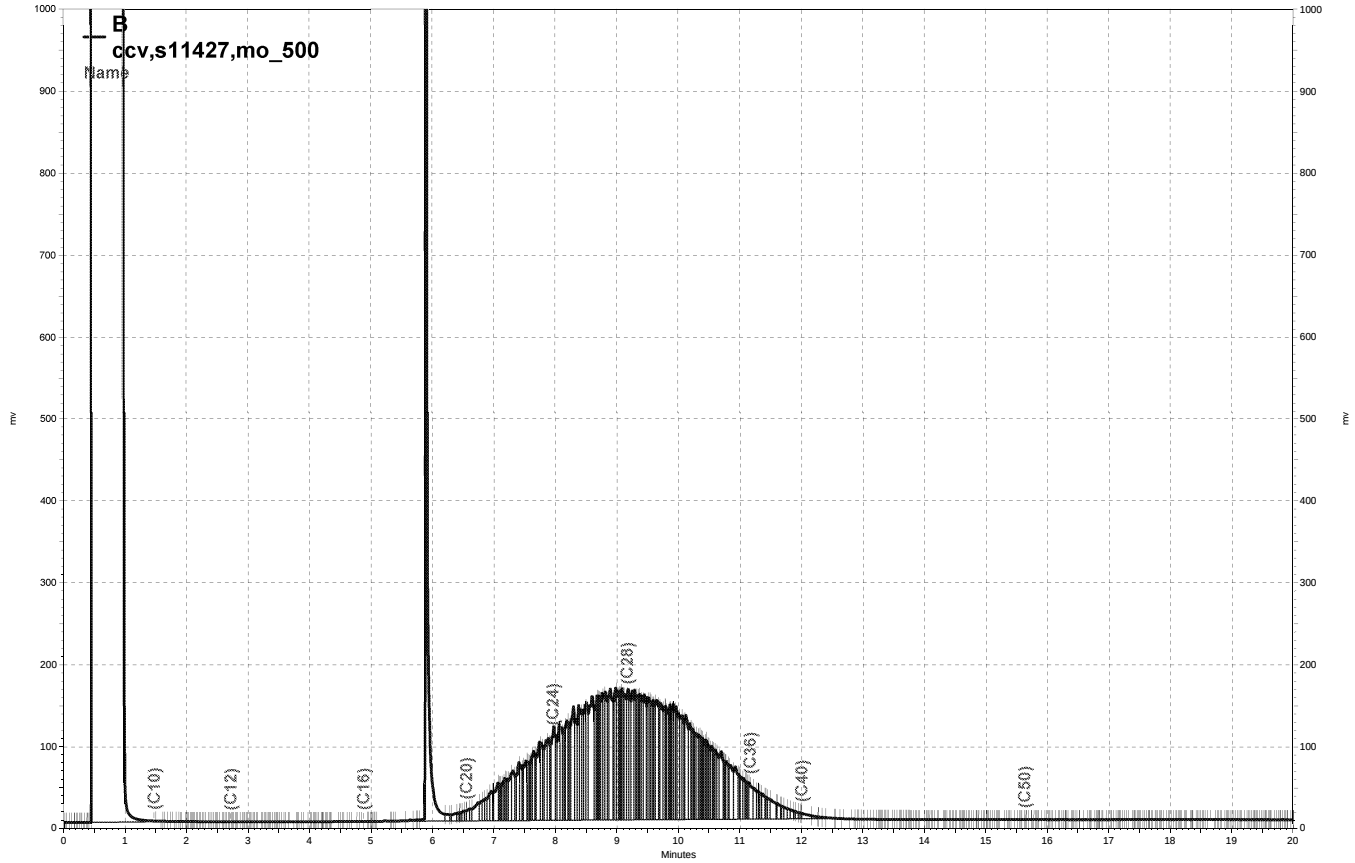

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Semivolatile Organics by GC/MS SIM

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 3550B
Project#:	08-616-A	Analysis:	EPA 8270C-SIM
Field ID:	WP5-S1-3.0	Batch#:	148090
Lab ID:	210138-005	Sampled:	02/18/09
Matrix:	Soil	Received:	02/18/09
Units:	ug/Kg	Prepared:	02/19/09
Basis:	as received	Analyzed:	02/23/09
Diln Fac:	5.000		

Analyte	Result	RL
Naphthalene	ND	25
2-Methylnaphthalene	ND	25
Acenaphthylene	ND	25
Acenaphthene	ND	25
Fluorene	ND	25
Phenanthrene	ND	25
Anthracene	ND	25
Fluoranthene	ND	25
Pyrene	ND	25
Benzo(a)anthracene	ND	25
Chrysene	38	25
Benzo(b)fluoranthene	ND	25
Benzo(k)fluoranthene	ND	25
Benzo(a)pyrene	ND	25
Indeno(1,2,3-cd)pyrene	ND	25
Dibenz(a,h)anthracene	ND	25
Benzo(g,h,i)perylene	ND	25

Surrogate	%REC	Limits
Nitrobenzene-d5	104	34-127
2-Fluorobiphenyl	69	47-120
Terphenyl-d14	97	46-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Semivolatile Organics by GC/MS SIM

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 3550B
Project#:	08-616-A	Analysis:	EPA 8270C-SIM
Field ID:	WP5-S1-5.0	Batch#:	148090
Lab ID:	210138-006	Sampled:	02/18/09
Matrix:	Soil	Received:	02/18/09
Units:	ug/Kg	Prepared:	02/19/09
Basis:	as received	Analyzed:	02/23/09
Diln Fac:	10.00		

Analyte	Result	RL
Naphthalene	ND	50
2-Methylnaphthalene	ND	50
Acenaphthylene	ND	50
Acenaphthene	560	50
Fluorene	2,200	50
Phenanthrene	ND	50
Anthracene	ND	50
Fluoranthene	210	50
Pyrene	240	50
Benzo(a)anthracene	120	50
Chrysene	370	50
Benzo(b)fluoranthene	ND	50
Benzo(k)fluoranthene	ND	50
Benzo(a)pyrene	ND	50
Indeno(1,2,3-cd)pyrene	ND	50
Dibenz(a,h)anthracene	ND	50
Benzo(g,h,i)perylene	ND	50

Surrogate	%REC	Limits
Nitrobenzene-d5	DO	34-127
2-Fluorobiphenyl	DO	47-120
Terphenyl-d14	DO	46-120

DO= Diluted Out
ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 3550B
Project#:	08-616-A	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC484010	Batch#:	148090
Matrix:	Soil	Prepared:	02/19/09
Units:	ug/Kg	Analyzed:	02/20/09
Basis:	as received		

Analyte	Result	RL
Naphthalene	ND	4.9
2-Methylnaphthalene	ND	4.9
Acenaphthylene	ND	4.9
Acenaphthene	ND	4.9
Fluorene	ND	4.9
Phenanthrene	ND	4.9
Anthracene	ND	4.9
Fluoranthene	ND	4.9
Pyrene	ND	4.9
Benzo(a)anthracene	ND	4.9
Chrysene	ND	4.9
Benzo(b)fluoranthene	ND	4.9
Benzo(k)fluoranthene	ND	4.9
Benzo(a)pyrene	ND	4.9
Indeno(1,2,3-cd)pyrene	ND	4.9
Dibenz(a,h)anthracene	ND	4.9
Benzo(g,h,i)perylene	ND	4.9

Surrogate	%REC	Limits
Nitrobenzene-d5	84	34-127
2-Fluorobiphenyl	85	47-120
Terphenyl-d14	67	46-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 3550B
Project#:	08-616-A	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC484011	Batch#:	148090
Matrix:	Soil	Prepared:	02/19/09
Units:	ug/Kg	Analyzed:	02/20/09
Basis:	as received		

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.30	30.97	93	43-120
Pyrene	33.30	28.03	84	39-120

Surrogate	%REC	Limits
Nitrobenzene-d5	86	34-127
2-Fluorobiphenyl	86	47-120
Terphenyl-d14	68	46-120

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Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 3550B
Project#:	08-616-A	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	148090
MSS Lab ID:	210121-009	Sampled:	02/18/09
Matrix:	Soil	Received:	02/18/09
Units:	ug/Kg	Prepared:	02/19/09
Basis:	as received	Analyzed:	02/23/09
Diln Fac:	1.000		

Type: MS Lab ID: QC484012

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<0.9344	33.65	28.62	85	42-120
Pyrene	5.616	33.65	32.33	79	29-136

Surrogate	%REC	Limits
Nitrobenzene-d5	99	34-127
2-Fluorobiphenyl	73	47-120
Terphenyl-d14	65	46-120

Type: MSD Lab ID: QC484013

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.86	31.95	94	42-120	10	39
Pyrene	33.86	33.13	81	29-136	2	50

Surrogate	%REC	Limits
Nitrobenzene-d5	109	34-127
2-Fluorobiphenyl	75	47-120
Terphenyl-d14	67	46-120

RPD= Relative Percent Difference

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Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	210138	Location:	San Leandro Step-Out
Client:	Iris Environmental	Prep:	EPA 3550B
Project#:	08-616-A	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	148090
MSS Lab ID:	210122-001	Sampled:	02/18/09
Matrix:	Soil	Received:	02/18/09
Units:	ug/Kg	Prepared:	02/19/09
Basis:	as received	Analyzed:	02/23/09
Diln Fac:	1.000		

Type: MS Lab ID: QC484014

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<0.9463	33.52	30.65	91	42-120
Pyrene	<0.7849	33.52	25.95	77	29-136

Surrogate	%REC	Limits
Nitrobenzene-d5	128 *	34-127
2-Fluorobiphenyl	71	47-120
Terphenyl-d14	69	46-120

Type: MSD Lab ID: QC484015

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.85	29.17	86	42-120	6	39
Pyrene	33.85	24.99	74	29-136	5	50

Surrogate	%REC	Limits
Nitrobenzene-d5	149 *	34-127
2-Fluorobiphenyl	76	47-120
Terphenyl-d14	66	46-120

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference