WOOD
PARTNERS

27 July 2017
Project 731641601

Mr. Mark Detterman, PG, CEG
Senior Hazardous Materials Specialist
Alameda County Health Care Services Agency
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Subject: Remediation Progress Report
2302 Valdez Street
Oakland, California
Alameda County SCP Case No. RO0003149
Langan Project: 731641601

Dear Mr. Detterman:

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached document submitted on my behalf to ACDEH's FTP server and the SWRCB's GeoTracker website.

Sincerely yours,

Brian Pianca
Vice President
CRP / WP Alta Waverly Owner, LLC

LANGAN

Memorandum

555 Montgomery Street, Suite 1300 San Francisco, CA 94111 T: 415.955.5200 F: 415.955.5201

TO: Mr. Mark Detterman, PG, CEG – Alameda County Department of Environmental Health Services

FROM: Peter J. Cusack – Langan Engineering and Environmental Services
Noel Liner, PG – Langan Engineering and Environmental Services
Karianne Staehlin – Langan Engineering and Environmental Services

DATE: 27 July 2017

PROJECT: Alta Waverly
2302 Valdez Street
Oakland, California
Langan Project No.: 731641601
Alameda County SCP Case No.: RO00031498

SUBJECT: Remediation Progress Report
RO3149_EX_R_2017-07-27

On behalf of WP West Acquisitions, LLC, Langan Engineering and Environmental Services (Langan) is pleased to present this technical memorandum summarizing the recent environmental activities for the Alta Waverly development project at 2302 Valdez Street (Site) in Oakland, California (Figure 1). Please note that this memorandum is merely a summary of recent environmental Site activities and precedes our more detailed Soil Management Completion Report (SMCR), to be completed prior to the completion of all Site development activities, and submitted to Alameda County Department of Environmental Health Services (ACEH).

The SMCR will present a chronology of the construction events, a summary of analytical data, a copy of all manifests from the Site, and a description of all soil and groundwater management activities at the Site. The report will also contain laboratory analytical results and figures, as appropriate, to provide detail regarding the amount and type of contamination encountered during various activities. The report will also summarize any residual contaminants that were left on the Site after completion of redevelopment activities and document that soil handling procedures were implemented in accordance with the Soil and Groundwater Management Plan (SGMP).

SITE BACKGROUND

The Site is bound by Valdez Street to the west, Waverly Street to the east, 23rd Street and an existing nine-story parking garage to the south, and residential buildings and parking lots to the north (Figure 2). The Site is T-shaped, measuring approximately 350 feet along Valdez Street, approximately 115 feet along 23rd Street, and approximately 100 feet along Waverly Street. The Site is currently an active construction site.

The Site was previously occupied by the Oakland Tribune Garage facility, which contained three service bays with hydraulic lifts for vehicle repair, located on the eastern side of the building. A gasoline dispensing pump was formerly located near the center of the building; and a floor sump, presumably used to drain fluids from cleaning the floors, in the northeastern corner of the building. The sump was reportedly removed and sealed in 1988. In addition, two underground storage tanks (USTs) (one 8,000-gallon gasoline tank and one 750-gallon waste oil tank) previously located beneath the Valdez Street sidewalk, directly outside of the western side of the building, were removed in February 1988.

SITE DEVELOPMENT PLAN

The proposed development plan consists of constructing a mixed-use development of the Site, consisting of below grade parking, street level commercial space, and upper floor residential units which will cover the entire property. The proposed structure is a seven-story, mixed-use (retail and residential) building over a partially below-grade parking level. Residential parking will be below grade along Valdez Street, with an at-grade entrance along Waverly Street. During Site construction, soil will be excavated to approximately 14 feet below ground surface (bgs) with a deeper excavation (approximately 4 feet) for the elevator pit.

SOIL AND GROUNDWATER MANAGEMENT PLAN

Langan's recent SGMP dated 29 January 2016 was prepared for the Site to address soil and groundwater management practices and procedures to be employed during Site development activities. The SGMP was developed based on the results of previous investigations conducted at the Site, and based on Site development plans prepared by Pyatok Architect and Urban Design dated 12 October 2015.

The SGMP summarized the Site's regulatory history, including the removal of former USTs and soil and groundwater sampling from groundwater monitoring wells installed across the Site, and subsequent monitoring activities. The SGMP also summarized the results of Langan's previous subsurface investigations, which indicate that the fill material underlying the Site contains elevated levels of petroleum hydrocarbons and heavy metals and will need to be disposed off-Site at Class I and Class II regulated landfills. Because of the Site's documented history with soil and groundwater contamination, Langan's SGMP also proposed to conduct verification soil sampling. The proposed verification soil sampling would consist of collecting both perimeter sidewall samples and confirmation bottom samples from the Site's finished grade excavation to verify that the lateral and vertical extent of the removal action meets the remedial action goals.

Upon reviewing Langan's SGMP and previous reports, ACEH granted conditional approval of the SGMP for implementation in a letter dated 26 February 2016.

RECENT ENVIRONMENTAL ACTIVITIES

Groundwater Monitoring Well Abandonment

Prior to Site development activities and excavation, a total of seven active groundwater monitoring wells were located on Site. Groundwater monitoring wells MW-2 through MW-7 were installed by others in November 2010 and MW-10 was installed by Langan in February 2015. It should be noted that in previous reports, by Langan, monitoring well MW-5 could not be located and was believed to have been abandoned. However, subsequent to the demolition of the previous Oakland Tribune Garage facility and the Site's concrete slabs and asphalt-paved surfaces, groundwater monitoring well MW-5 was located, and had not been properly abandoned.

In April 2016, all seven groundwater monitoring wells were decommissioned after approval from ACEH and with an Alameda County Public Water Agency (ACPWA) permit and under the oversight of an ACPWA inspector. Approximate locations of the former groundwater monitoring wells, decommissioned by Langan, are shown on Figure 2.

Soil Segregation and Off-Site Disposal

Langan's previous subsurface investigations indicated that the fill material underlying the Site contains elevated levels of petroleum hydrocarbons and heavy metals and will need to be disposed off-Site at Class I and Class II regulated landfills. The approximate location and extent of Class I hazardous material, including both Federal RCRA and State of California non-RCRA, is shown on Figure 2.

On 28 April 2016, all Federal RCRA hazardous material was excavated, loaded directly into trucks, transported and disposed off-Site. From 29 April 2016 through 3 May 2016, all State of California non-RCRA hazardous material was excavated, loaded directly into trucks, transported and disposed off-Site. Subsequent to the removal of all hazardous material, mass excavation and removal of the remaining non-hazardous material was essentially completed in mid-June 2016.

Verification Soil Sampling

As required by ACEH and previously outlined in Langan's SGMP, verification soil sampling was conducted on-Site, to verify that the lateral and vertical extent of the removal actions met the previously set remedial action goals.

Perimeter Sidewall Sampling

Perimeter sidewall sampling was conducted from April 2016 until June 2016. The sampling consisted of collecting Site perimeter soil samples from the pre-drill holes drilled during the soldier pile installation activities. As shown on Figure 3, a total of 24 perimeter sidewall samples (SP-3 through SP-130) were collected from the respective pre-drilled soldier pile

installation holes, outlined by the shoring plans. All soil samples were submitted to McCampbell Analytical, Inc. (McCampbell), a state-certified analytical laboratory in Pittsburg, California under appropriate chain-of-custody documentation and analyzed for the following:

- Total petroleum hydrocarbons (TPH) as gasoline (TPHg), TPH as diesel (TPHd), and TPH as motor oil (TPHmo) by EPA Method 8021/8015;
- Leaking underground fuel tank (LUFT) 5 metals by EPA Method 6020; and
- Total arsenic by EPA Method 6020.

The soil analytical results for non-metals are presented in Table 1 and were compared to the Site cleanup goals, previously established in the SGMP, and the San Francisco Bay Area Regional Water Quality Control Board (RWQCB) Tier 1 Environmental screening levels (ESLs) for soil. TPHg was detected at or above the method reporting limit (1.0 milligrams per kilogram (mg/kg)) in 3 of the 24 soil samples analyzed at concentrations ranging from 2.4 mg/kg to 200 mg/kg. TPHd was detected at or above the method reporting limit (1.0 mg/kg) in 3 of the 24 soil samples analyzed at concentrations ranging from 2.8 mg/kg to 760 mg/kg. TPHmo was detected at or above the method reporting limit (5.0 mg/kg) in 4 of the 24 soil samples analyzed at concentrations ranging from 15 mg/kg to 5,800 mg/kg. Based on these results, one sample (SP-26-7'), exceeds both the Site cleanup goals and the Tier 1 ESLs established for TPHg, TPHd, and TPHmo. One additional sample (SP-130-1.5') detected TPHmo at a concentration of 260 mg/kg, which exceeds the Site cleanup goal (100 mg/kg) but does not exceed the Tier 1 ESL (5,100 mg/kg).

The soil analytical results for metals are presented in Table 2 and were compared to the Site cleanup goals. Total arsenic was detected at or above the method reporting limit in each of the 24 soil samples analyzed, at concentrations ranging from 2.0 mg/kg to 8.4 mg/kg. Two samples (SP-17-7' and SP-18-10') detected total arsenic at concentrations of 6.2 mg/kg and 8.4 mg/kg, respectively. These detections exceed the established Site cleanup goal for arsenic (5.10 mg/kg), but are within background levels for the San Francisco Bay Area. Total lead was detected at or above the method reporting limit in each of the 24 soil samples analyzed, at concentrations ranging from 3.5 mg/kg to 230 mg/kg. One sample (SP-123-2.5') detected total lead at a concentration of 230 mg/kg, which exceeds the established Site cleanup goal for lead, 80 mg/kg. The remaining metal concentrations were within normal background ranges found in San Francisco Bay Area and did not exceed Site cleanup goals, where established.

Confirmation Bottom Sampling

Confirmation bottom sampling was conducted on 20 June 2016. The sampling consisted of collecting soil samples from the bottom of the Site's proposed grade excavation. As shown on Figure 3, a total of 24 confirmation bottom samples (C-1 through C-24) were collected from the bottom of the Site's excavation, based on an approximate 50 foot by 50 foot grid. All soil samples were submitted to McCampbell under appropriate chain-of-custody documentation and analyzed for the following:

- TPHg, TPHd, and TPHmo by EPA Method 8021/8015;
- Total arsenic by EPA Method 6020
- Total chromium by EPA Method 6020; and
- Total lead by EPA Method 6020.

The soil analytical results for non-metals are presented in Table 3 and were compared to the Site cleanup goals, previously established in the SGMP, and the RWQCB Tier 1 ESLs for soil. TPHg was not detected at or above the method reporting limit (1.0 mg/kg) in any of the 24 samples analyzed. TPHd was detected at or above the method reporting limit (1.0 mg/kg) in 3 of the 24 soil samples analyzed at concentrations ranging from 1.7 mg/kg to 15 mg/kg, none of which exceed the cleanup goal, 100 mg/kg. TPHmo was detected at or above the method reporting limit (5.0 mg/kg) in 3 of the 24 soil samples analyzed at concentrations ranging from 6.3 mg/kg to 140 mg/kg. One sample (C-13) detected TPHmo at a concentration of 140 mg/kg, which exceeds the Site cleanup goal (100 mg/kg). However, at the time of sampling, location C-13 was reportedly not excavated to final grade. The area was resampled on 22 June 2016, after being excavated and graded to final depth. TPHmo was not detected at or above the method reporting limit (5.0 mg/kg) in the resampled area (C-13A).

The soil analytical results for metals are presented in Table 4 and were compared to the Site cleanup goals. Total arsenic was detected at or above the method reporting limit in each of the 24 soil samples analyzed, at concentrations ranging from 0.90 mg/kg to 10 mg/kg. Six of the 24 samples detected total arsenic concentrations that exceed the established Site cleanup goal for arsenic (5.10 mg/kg), but are within background levels for the San Francisco Bay Area.

If you have any questions after reviewing this report, please contact us at (415) 955-5200.

Tables:
Table 1 Soil Analytical Results for Non-Metals, Perimeter Sidewall Sampling
Table 2 Soil Analytical Results for Metals, Perimeter Sidewall Sampling
Table 3 Soil Analytical Results for Non-Metals, Confirmation Soil Sampling
Table 4 Soil Analytical Results for Metals, Confirmation Soil Sampling

Figures:
Figure 1 Site Location Map
Figure 2 Site Plan with Locations of Decommissioned Groundwater Monitoring Wells and Previous Extent of Hazardous Material
Figure 3 Site Plan with Verification Sampling Locations

Appendices:
Appendix A Certified Analytical Reports and Chain-of-Custody Documentation

TABLES

Table 1
Non-Metals Analytical Results in Soil
Perimeter Sidewall Sampling
Alta Waverly
Oakland, California

Sample ID	Depth	Date Sampled	TPHg	TPHd	TPHmo
	(feet)		(mg/kg)		
SP-3-5.5'	5.5	4/28/16	< 1.0	< 1.0	< 5.0
SP-10-6'	6.0	4/28/16	< 1.0	< 1.0	< 5.0
SP-17-7'	7.0	4/28/16	< 1.0	< 1.0	< 5.0
SP-18-10'	10.0	4/28/16	< 1.0	< 1.0	< 5.0
SP-19-7'	7.0	4/28/16	2.4	2.8	15
SP-21-7'	7.0	4/28/16	2.4	< 1.0	< 5.0
SP-24-7'	7.0	4/27/16	< 1.0	< 1.0	< 5.0
SP-25-7'	7.0	4/28/16	< 1.0	< 1.0	< 5.0
SP-26-7'	7.0	4/28/16	**200**	**760**	**5,800**
SP-33-7'	7.0	4/28/16	< 1.0	< 1.0	< 5.0
SP-40-8'	8.0	5/3/16	< 1.0	< 1.0	< 5.0
SP-47-7'	7.0	5/5/16	< 1.0	< 1.0	< 5.0
SP-54-7'	7.0	5/15/16	< 1.0	< 1.0	< 5.0
SP-61-6.5'	6.5	5/6/16	< 1.0	< 1.0	< 5.0
SP-68-7'	7.0	5/9/16	< 1.0	< 1.0	< 5.0
SP-75-6'	6.0	5/10/16	< 1.0	< 1.0	< 5.0
SP-83-6.5'	6.5	5/12/16	< 1.0	< 1.0	< 5.0
SP-89-5'	5.0	5/19/16	< 1.0	< 1.0	< 5.0
SP-96-4.5'	4.5	5/24/16	< 1.0	< 1.0	< 5.0
SP-102-3'	3.0	5/24/16	< 1.0	< 1.0	< 5.0
SP-108-4'	4.0	5/27/16	< 1.0	< 1.0	< 5.0
SP-116-3'	3.0	6/2/16	< 1.0	< 1.0	< 5.0
SP-123-2.5'	2.5	6/2/16	< 1.0	< 1.0	16
SP-130-1.5'	1.5	6/2/16	< 1.0	9.4	**260**
Site Cleanup Goals			100	100	100
Tier 1 ESLs			100	230	5,100

Notes:

mg/kg - milligrams per kilograms

TPHg - Total Petroleum Hydrocarbons as Gasoline

TPHd - Total Petroleum Hydrocarbons as Diesel Range

TPHmo - Total Petroleum Hydrocarbons as Motor Oil

< 1.0 - Analyte was not detected above the laboratory reporting limit (1.0 mg/kg)

Bold - Detected concentration exceeds the established Site cleanup goals and/or the Tier 1 ESLs

Tier 1 ESLs - RWQCB Environmental Soil Screening Levels based on a generic conceptual site model designed for use at most sites. The Tier 1 ESL summary table is generally derived from the most conservative ESL for each compound (February 2016 [Rev.3])

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Table 2
Metal Analytical Results in Soil
Perimeter Sidewall Sampling
Alta Waverly
Oakland, California

Sample ID	Depth (feet)	Date Sampled	Arsenic	Cadmium	Chromium	Lead	Nickel	Zinc
	(feet)		(mg/kg)					
SP-3-5.5'	5.5	4/28/16	2.8	< 0.25	33	4.8	44	29
SP-10-6'	6.0	4/28/16	2.6	< 0.25	34	5.6	62	35
SP-17-7'	7.0	4/28/16	**6.2**	0.26	59	8.7	62	65
SP-18-10'	10.0	4/28/16	**8.4**	< 0.25	86	8.9	74	31
SP-19-7'	7.0	4/28/16	3.7	0.43	43	5.6	61	46
SP-21-7'	7.0	4/28/16	3.6	0.31	40	5.9	60	40
SP-24-7'	7.0	4/27/16	3.2	< 0.25	39	6.4	53	32
SP-25-7'	7.0	4/28/16	2.9	< 0.25	34	4.6	35	28
SP-26-7'	7.0	4/28/16	5.0	< 0.25	45	24	66	33
SP-33-7'	7.0	4/28/16	2.6	< 0.25	45	6.8	73	44
SP-40-8'	8.0	5/3/16	4.2	< 0.25	56	8.7	59	55
SP-47-7'	7.0	5/5/16	3.1	< 0.25	50	4.8	52	32
SP-54-7'	7.0	5/15/16	3.6	< 0.25	60	7.3	65	39
SP-61-6.5'	6.5	5/6/16	2.0	< 0.25	44	3.5	52	41
SP-68-7'	7.0	5/9/16	2.6	< 0.25	45	5.3	70	40
SP-75-6'	6.0	5/10/16	3.8	< 0.25	32	14	51	36
SP-83-6.5'	6.5	5/12/16	2.9	< 0.25	40	4.9	60	32
SP-89-5'	5.0	5/19/16	3.0	< 0.25	44	14	51	34
SP-96-4.5'	4.5	5/24/16	3.8	< 0.25	47	4.8	67	30
SP-102-3'	3.0	5/24/16	2.3	< 0.25	41	5.5	43	25
SP-108-4'	4.0	5/27/16	2.9	< 0.25	29	7.5	23	25
SP-116-3'	3.0	6/2/16	4.7	< 0.25	37	11	20	27
SP-123-2.5'	2.5	6/2/16	4.6	1.1	35	**230**	32	490
SP-130-1.5'	1.5	6/2/16	4.0	< 0.25	37	74	34	120
Background [Metal] in Bay Area Soils*			1.2-31	0.27-3.3	10-142	4.8-65	16-144	33-282
Site Cleanup Goals			5.10	NE	1,000	80	NE	NE
Hazardous Waste Criteria								
TTLC	(mg/kg)		500	100	2,500	1,000	2,000	5,000
STLC	(mg/L)		5	1	--	--	20	250
TCLP	(mg/L)		5	1	--	--	--	--

Notes:
mg/kg - milligrams per kilograms
< 0.25 - Analyte was not detected above the laboratory reporting limit (0.25 mg/kg).
Bold - Detected concentration exceed Site cleanup goals
NE - No Site cleanup goal established
*Background concentration ranges of metals in Bay Area soils, Appendix A, Table A-2 from Environmental Resources Management. Feasibility Study, Hookston Station, Pleasant Hill, California. July 2006
TTLC - California Total Threshold Limit Concentration - State hazardous waste criterion
STLC - California Soluble Threshold Limit Concentration
TCLP - Federal Toxicity Characteristic Leaching Procedure

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Table 3
Non-Metals Analytical Results in Soil
Confirmation Soil Sampling
Alta Waverly
Oakland, California

Sample ID	Date Sampled	TPHg	TPHd	TPHmo
		(mg/kg)		
C-1	06/20/16	< 1.0	< 1.0	< 5.0
C-2	06/20/16	< 1.0	< 1.0	< 5.0
C-3	06/20/16	< 1.0	< 1.0	< 5.0
C-4	06/20/16	< 1.0	< 1.0	< 5.0
C-5	06/20/16	< 1.0	< 1.0	< 5.0
C-6	06/20/16	< 1.0	< 1.0	< 5.0
C-7	06/20/16	< 1.0	< 1.0	< 5.0
C-8	06/20/16	< 1.0	< 1.0	< 5.0
C-9	06/20/16	< 1.0	< 1.0	< 5.0
C-10	06/20/16	< 1.0	< 1.0	< 5.0
C-11	06/20/16	< 1.0	< 1.0	< 5.0
C-12	06/20/16	< 1.0	< 1.0	< 5.0
C-13	06/20/16	< 1.0	13	**140**
C-13 A	06/22/16	--	--	< 5.0
C-14	06/20/16	< 1.0	< 1.0	< 5.0
C-15	06/20/16	< 1.0	< 1.0	< 5.0
C-16	06/20/16	< 1.0	< 1.0	< 5.0
C-17	06/20/16	< 1.0	< 1.0	< 5.0
C-18	06/20/16	< 1.0	1.7	6.3
C-19	06/20/16	< 1.0	< 1.0	< 5.0
C-20	06/20/16	< 1.0	< 1.0	< 5.0
C-21	06/20/16	< 1.0	< 1.0	< 5.0
C-22	06/20/16	< 1.0	< 1.0	< 5.0
C-23	06/20/16	< 1.0	< 1.0	< 5.0
C-24	06/20/16	< 1.0	15	53
Site Cleanup Goals		100	100	100
Tier 1 ESLs		100	230	5,100

Notes:
mg/kg - milligrams per kilograms
TPHg - Total Petroleum Hydrocarbons as Gasoline
TPHd - Total Petroleum Hydrocarbons as Diesel Range
TPHmo - Total Petroleum Hydrocarbons as Motor Oil
< 1.0 - Analyte was not detected above the laboratory reporting limit (1.0 mg/kg)
Bold - Detected concentrations exceeds Site cleanup goals
-- Not analyzed
Tier 1 ESLs - RWQCB Environmental Soil Screening Levels based on a generic conceptual site model designed for use at most sites. The Tier 1 ESL summary table is generally derived from the most conservative ESL for each compound (February 2016 [Rev.3])

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Table 4
Metal Analytical Results in Soil
Confirmation Soil Sampling
Alta Waverly
Oakland, California

Sample ID	Date Sampled	Arsenic	Chromium	Lead
		(mg/kg)		
C-1	06/20/16	**5.5**	50	6.6
C-2	06/20/16	3.3	41	5.8
C-3	06/20/16	2.6	36	4.6
C-4	06/20/16	3.8	93	16
C-5	06/20/16	**5.3**	43	6.1
C-6	06/20/16	0.90	29	3.8
C-7	06/20/16	4.8	36	7.7
C-8	06/20/16	3.3	31	3.8
C-9	06/20/16	2.2	40	4.6
C-10	06/20/16	2.9	29	4.0
C-11	06/20/16	4.2	33	6.0
C-12	06/20/16	4.2	45	9.6
C-13	06/20/16	4.5	43	12
C-14	06/20/16	**9.6**	83	8.5
C-15	06/20/16	2.6	46	8.8
C-16	06/20/16	**6.0**	48	7.2
C-17	06/20/16	**10**	72	13
C-18	06/20/16	2.5	31	7.3
C-19	06/20/16	3.3	41	9.5
C-20	06/20/16	**9.8**	53	6.8
C-21	06/20/16	4.4	64	6.8
C-22	06/20/16	3.4	41	5.0
C-23	06/20/16	3.9	64	6.9
C-24	06/20/16	3.2	37	4.6
Background [Metal] in Bay Area Soils*		1.2-31	10-142	4.8-65
Site Cleanup Goals		5.10	1,000	80
Hazardous Waste Criteria				
TTLC		500	2,500	1,000
STLC		5	--	--
TCLP		5	--	--

Notes:
mg/kg - milligrams per kilograms
Bold - Detected concentrations exceeds Site cleanup goals
*Background concentration ranges of metals in Bay Area soils, Appendix A, Table A-2 from Environmental Resources Management. Feasibility Study, Hookston Station, Pleasant Hill, California. July 2006
TTLC - California Total Threshold Limit Concentration - State hazardous waste criterion
STLC - California Soluble Threshold Limit Concentration
TCLP - Federal Toxicity Characteristic Leaching Procedure

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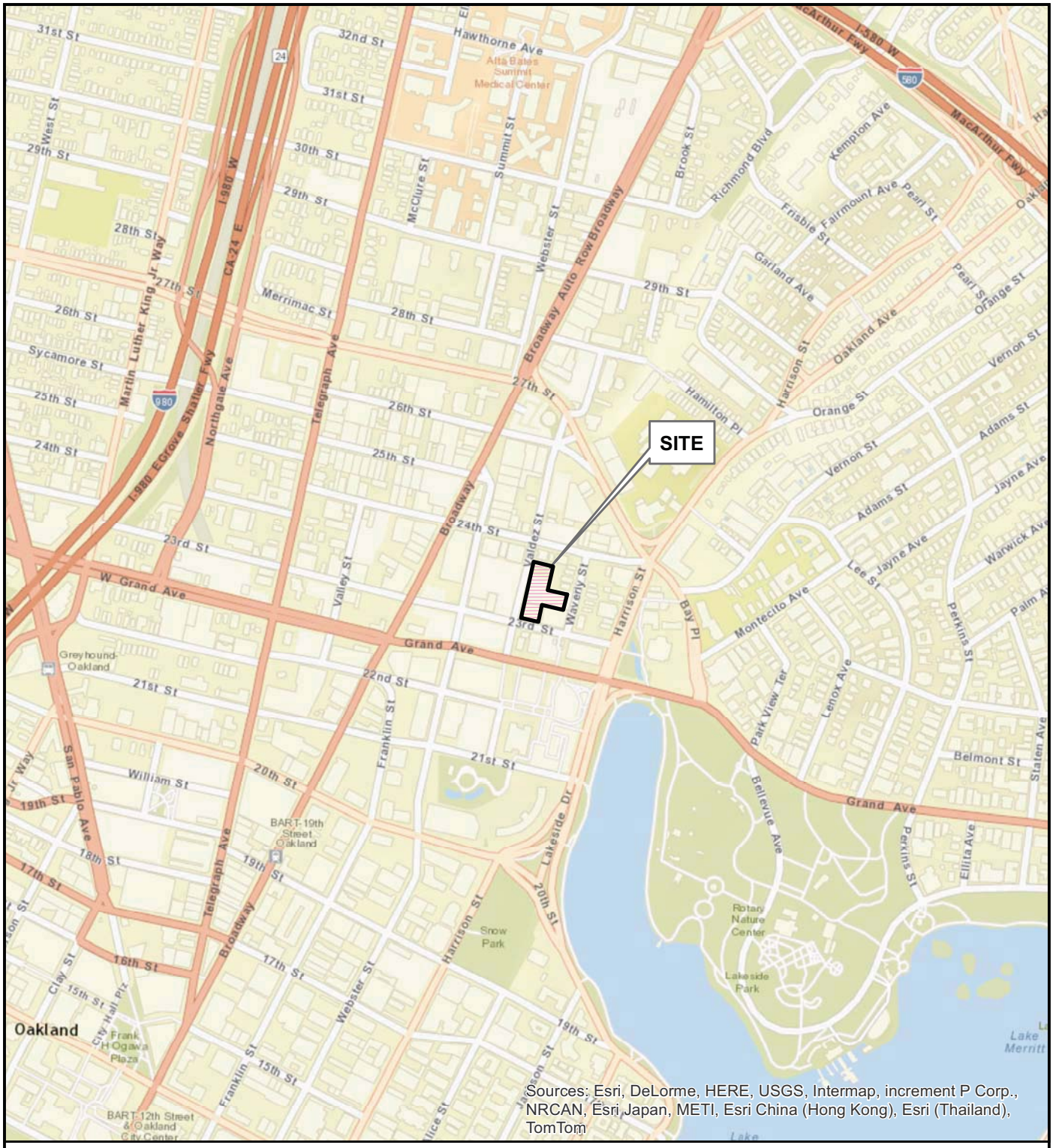
FIGURES



Notes:

1. World street basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online. Credits: Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN.
2. Map displayed in California State Plane Coordinate System , Zone III, North American Datum of 1983 (NAD83), US Survey Feet.

0 300 600 1,200
Feet

N

ALTA WAVERLY
2302 VALDZEZ STREET
Oakland, California

SITE LOCATION MAP

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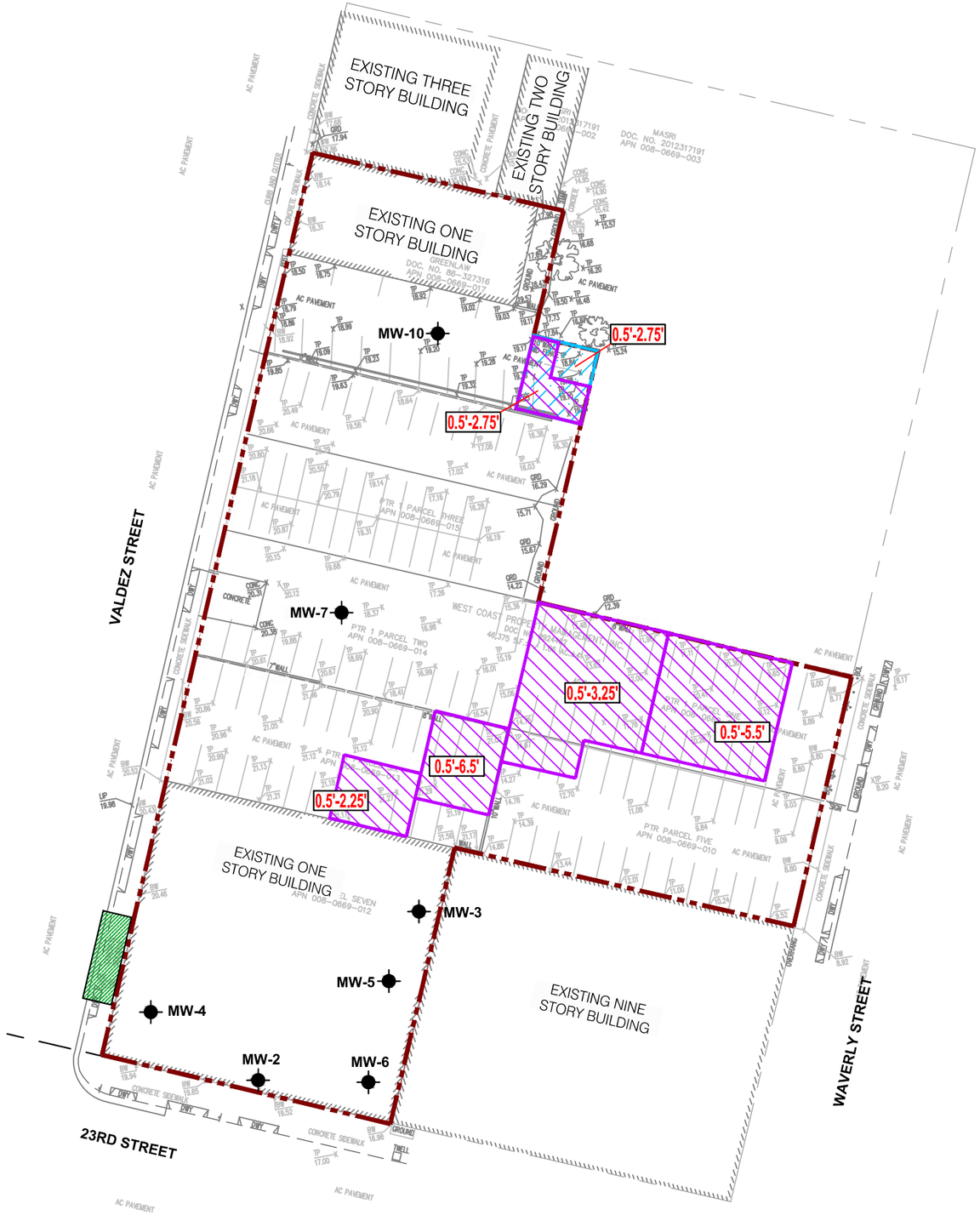
Date 07/27/17	Project No. 731641601	Figure 1



EXPLANATION

- MW-5 — Approximate location of former groundwater monitoring well decommissioned by Langan Treadwell Rollo, April 2016
- Approximate location of former USTs. Removed February 1988
- Approximate extent of Federal RCRA Hazardou Material
- Approximate extent of State of California Non-RCRA Hazardous Material
- 0.5'-2.75' — Approximate depth of hazardous material
- Approximate Site boundary

N

0 50 Feet

Approximate scale

Reference: Base map from drawing titled "Existing Site Boundary Plan", by BKF, dated 21 November 2014.

ALTA WAVERLY
2302 VALDEZ STREET
Oakland, California

SITE PLAN WITH LOCATIONS OF DECOMMISSONED GROUNWATER MONITORING WELLS AND PREVIOUS EXTENT OF HAZARDOUS MATERIAL

Date 07/27/17	Project No. 731641601	Figure 2

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\\langan.com\data\SFO\data6\731641601\Cadd Data – 731641601\2D-DesignFiles\Environmental\731641601-N-SP0112.dwg 7/27/17

EXPLANATION

C-1 ● Approximate location of confirmation bottom soil sample by Langan Treadwell Rollo, June 2016

SP-3 ● Approximate location of perimeter sidewall soil sample by Langan Treadwell Rollo, April through June 2016

Approximate Site boundary

N

0 50 Feet

Approximate scale

Reference: Base map from a drawing titled "Shoring Plan," Sheet SH3, by Hohbach-Lewin, Inc., revision dated 03/23/16.

ALTA WAVERLY
2302 VALDEZ STREET
Oakland, California

SITE PLAN WITH VERIFICATION SAMPLING LOCATIONS

Date 07/27/17	Project No. 731641601	Figure 3

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\\langan.com\data\SFO\data6\731641601\Cadd Data — 731641601\2D-DesignFiles\Environmental\731641601-N-SP0113.dwg 7/27/17

APPENDIX A
CERTIFIED ANALYTICAL REPORTS AND CHAIN OF CUSTODY DOCUMENTATION

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1606A36

Report Created for: Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

Project Contact: Peter Cusack
Project P.O.:
Project Name: 731641601; 23rd & Valdez

Project Received: 06/22/2016

Analytical Report reviewed & approved for release on 06/23/2016 by:

Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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

Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641601; 23rd & Valdez
WorkOrder: 1606A36

Glossary Abbreviation

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

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606A36
Date Received:	6/22/16 14:03	**Extraction Method:**	SW3550B
Date Prepared:	6/22/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd & Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-13 A	1606A36-001A	Soil	06/22/2016 13:05	GC9b	122642

Analytes	Result	RL	DF	Date Analyzed
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/22/2016 19:24

Surrogates	REC (%)	Limits	
C9	88	70-130	06/22/2016 19:24

Analyst(s): TK

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606A36
Date Prepared:	6/21/16	**BatchID:**	122642
Date Analyzed:	6/22/16	**Extraction Method:**	SW3550B
Instrument:	GC9a	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd & Valdez	**Sample ID:**	MB/LCS-122642 1606A01-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.7	1.0	40	-	99	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	24.3	24.4		25	97	98	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	39.5	38.6	40	2.337	93	91	70-130	2.17	30
Surrogate Recovery									
C9	24.6	24.5	25		98	98	70-130	0	30

NELAP 4033ORELAP

QA/QC Officer

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1606A36 **ClientCode: TWRF**

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

Report to:
Peter Cusack
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party: rnmilano@treadwellrollo.com;
PO:
ProjectNo: 731641601; 23rd & Valdez

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

Requested TAT: 1 day;

Date Received: **06/22/2016**
Date Logged: **06/22/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1606A36-001	C-13 A	Soil	6/22/2016 13:05	☐	A											

Test Legend:

1	TPH_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Valerie Riva

Comments:

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641601; 23rd & Valdez
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1606A36
Date Logged: 6/22/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1606A36-001A	C-13 A	Soil	SW8015B (TEPHs) <TPH-Motor Oil (C18-C36)>	1	Stainless Steel tube 2"x3"	☐	6/22/2016 13:05	1 day		☐	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1606A36

LANGAN TREADWELL ROLLO

CHAIN OF CUSTODY RECORD

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
☐ 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
☐ 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413

RUSH

Site Name: 23rd and Valdez
Job Number: 731641601
Project Manager\Contact: Peter Cusack / Rob Milano
Samplers: Rob Milano
Recorder (Signature Required):

Turnaround Time: 24 hour

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH md	Silica gel clean-up	Hold	Remarks
C-13A	6-22-16	1305		X								X			

Relinquished by: (Signature)	Date 6-22-16	Time	Received by: (Signature) Valerie Rios	Date 6/22/16	Time 2:03
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

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

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

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

COC Number: 14263

NOICE

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Sample Receipt Checklist

Client Name:	**Treadwell & Rollo**	Date and Time Received:	**6/22/2016 14:03**
Project Name:	**731641601; 23rd & Valdez**	Date Logged:	**6/22/2016**
WorkOrder №:	**1606A36** Matrix: Soil	Received by:	Valerie Riva
Carrier:	Client Drop-In	Logged by:	Valerie Riva

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp:		NA ☑
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☐	No ☑	

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1606892

Report Created for: Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

Project Contact: Peter Cusack
Project P.O.: 731641601
Project Name: 731641601; 23rd and Valdez

Project Received: 06/20/2016

Analytical Report reviewed & approved for release on 06/21/2016 by:

Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641601; 23rd and Valdez
WorkOrder: 1606892

Glossary Abbreviation

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

Analytical Qualifiers

e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641601; 23rd and Valdez
WorkOrder: 1606892

Quality Control Qualifiers

F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-1	1606892-001A	Soil	06/20/2016 10:23	GC19	122513

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/20/2016 19:56
MTBE	---	0.050	1	06/20/2016 19:56
Benzene	---	0.0050	1	06/20/2016 19:56
Toluene	---	0.0050	1	06/20/2016 19:56
Ethylbenzene	---	0.0050	1	06/20/2016 19:56
Xylenes	---	0.015	1	06/20/2016 19:56

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	70-130	06/20/2016 19:56

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-2	1606892-002A	Soil	06/20/2016 10:25	GC19	122513

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/20/2016 20:27
MTBE	---	0.050	1	06/20/2016 20:27
Benzene	---	0.0050	1	06/20/2016 20:27
Toluene	---	0.0050	1	06/20/2016 20:27
Ethylbenzene	---	0.0050	1	06/20/2016 20:27
Xylenes	---	0.015	1	06/20/2016 20:27

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	70-130	06/20/2016 20:27

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-3	1606892-003A	Soil	06/20/2016 10:28	GC19	122513

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/20/2016 20:58
MTBE	---	0.050	1	06/20/2016 20:58
Benzene	---	0.0050	1	06/20/2016 20:58
Toluene	---	0.0050	1	06/20/2016 20:58
Ethylbenzene	---	0.0050	1	06/20/2016 20:58
Xylenes	---	0.015	1	06/20/2016 20:58

Surrogates	REC (%)	Limits	
2-Fluorotoluene	98	70-130	06/20/2016 20:58

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-4	1606892-004A	Soil	06/20/2016 10:30	GC19	122513

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/20/2016 21:29
MTBE	---	0.050	1	06/20/2016 21:29
Benzene	---	0.0050	1	06/20/2016 21:29
Toluene	---	0.0050	1	06/20/2016 21:29
Ethylbenzene	---	0.0050	1	06/20/2016 21:29
Xylenes	---	0.015	1	06/20/2016 21:29

Surrogates	REC (%)	Limits	
2-Fluorotoluene	98	70-130	06/20/2016 21:29

Analyst(s): IA

(Cont.)

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

Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-5	1606892-005A	Soil	06/20/2016 10:35	GC19	122513

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/20/2016 23:01
MTBE	---	0.050	1	06/20/2016 23:01
Benzene	---	0.0050	1	06/20/2016 23:01
Toluene	---	0.0050	1	06/20/2016 23:01
Ethylbenzene	---	0.0050	1	06/20/2016 23:01
Xylenes	---	0.015	1	06/20/2016 23:01

Surrogates	REC (%)	Limits	
2-Fluorotoluene	107	70-130	06/20/2016 23:01

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-6	1606892-006A	Soil	06/20/2016 10:45	GC19	122513

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/20/2016 23:31
MTBE	---	0.050	1	06/20/2016 23:31
Benzene	---	0.0050	1	06/20/2016 23:31
Toluene	---	0.0050	1	06/20/2016 23:31
Ethylbenzene	---	0.0050	1	06/20/2016 23:31
Xylenes	---	0.015	1	06/20/2016 23:31

Surrogates	REC (%)	Limits	
2-Fluorotoluene	101	70-130	06/20/2016 23:31

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-7	1606892-007A	Soil	06/20/2016 10:50	GC19	122513

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 00:02
MTBE	---	0.050	1	06/21/2016 00:02
Benzene	---	0.0050	1	06/21/2016 00:02
Toluene	---	0.0050	1	06/21/2016 00:02
Ethylbenzene	---	0.0050	1	06/21/2016 00:02
Xylenes	---	0.015	1	06/21/2016 00:02

Surrogates	REC (%)	Limits	
2-Fluorotoluene	103	70-130	06/21/2016 00:02

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-8	1606892-008A	Soil	06/20/2016 10:55	GC19	122513

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 00:32
MTBE	---	0.050	1	06/21/2016 00:32
Benzene	---	0.0050	1	06/21/2016 00:32
Toluene	---	0.0050	1	06/21/2016 00:32
Ethylbenzene	---	0.0050	1	06/21/2016 00:32
Xylenes	---	0.015	1	06/21/2016 00:32

Surrogates	REC (%)	Limits	
2-Fluorotoluene	102	70-130	06/21/2016 00:32

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-9	**1606892-009A**	**Soil**	**06/20/2016 11:00**	**GC19**	**122513**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 01:03
MTBE	---	0.050	1	06/21/2016 01:03
Benzene	---	0.0050	1	06/21/2016 01:03
Toluene	---	0.0050	1	06/21/2016 01:03
Ethylbenzene	---	0.0050	1	06/21/2016 01:03
Xylenes	---	0.015	1	06/21/2016 01:03

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	70-130	06/21/2016 01:03

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-10	**1606892-010A**	**Soil**	**06/20/2016 11:05**	**GC19**	**122544**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 01:34
MTBE	---	0.050	1	06/21/2016 01:34
Benzene	---	0.0050	1	06/21/2016 01:34
Toluene	---	0.0050	1	06/21/2016 01:34
Ethylbenzene	---	0.0050	1	06/21/2016 01:34
Xylenes	---	0.015	1	06/21/2016 01:34

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	70-130	06/21/2016 01:34

Analyst(s): IA

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-11	1606892-011A	Soil	06/20/2016 12:10	GC19	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 02:04
MTBE	---	0.050	1	06/21/2016 02:04
Benzene	---	0.0050	1	06/21/2016 02:04
Toluene	---	0.0050	1	06/21/2016 02:04
Ethylbenzene	---	0.0050	1	06/21/2016 02:04
Xylenes	---	0.015	1	06/21/2016 02:04

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	70-130	06/21/2016 02:04

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-12	1606892-012A	Soil	06/20/2016 12:25	GC19	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 02:35
MTBE	---	0.050	1	06/21/2016 02:35
Benzene	---	0.0050	1	06/21/2016 02:35
Toluene	---	0.0050	1	06/21/2016 02:35
Ethylbenzene	---	0.0050	1	06/21/2016 02:35
Xylenes	---	0.015	1	06/21/2016 02:35

Surrogates	REC (%)	Limits	
2-Fluorotoluene	102	70-130	06/21/2016 02:35

Analyst(s): IA

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-13	1606892-013A	Soil	06/20/2016 12:30	GC19	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 03:05
MTBE	---	0.050	1	06/21/2016 03:05
Benzene	---	0.0050	1	06/21/2016 03:05
Toluene	---	0.0050	1	06/21/2016 03:05
Ethylbenzene	---	0.0050	1	06/21/2016 03:05
Xylenes	---	0.015	1	06/21/2016 03:05

Surrogates	REC (%)	Limits	
2-Fluorotoluene	109	70-130	06/21/2016 03:05

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-14	1606892-014A	Soil	06/20/2016 11:10	GC19	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 03:36
MTBE	---	0.050	1	06/21/2016 03:36
Benzene	---	0.0050	1	06/21/2016 03:36
Toluene	---	0.0050	1	06/21/2016 03:36
Ethylbenzene	---	0.0050	1	06/21/2016 03:36
Xylenes	---	0.015	1	06/21/2016 03:36

Surrogates	REC (%)	Limits	
2-Fluorotoluene	108	70-130	06/21/2016 03:36

Analyst(s): IA

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-15	1606892-015A	Soil	06/20/2016 11:15	GC19	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 04:06
MTBE	---	0.050	1	06/21/2016 04:06
Benzene	---	0.0050	1	06/21/2016 04:06
Toluene	---	0.0050	1	06/21/2016 04:06
Ethylbenzene	---	0.0050	1	06/21/2016 04:06
Xylenes	---	0.015	1	06/21/2016 04:06

Surrogates	REC (%)	Limits	
2-Fluorotoluene	103	70-130	06/21/2016 04:06

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-16	1606892-016A	Soil	06/20/2016 12:15	GC7	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 04:46
MTBE	---	0.050	1	06/21/2016 04:46
Benzene	---	0.0050	1	06/21/2016 04:46
Toluene	---	0.0050	1	06/21/2016 04:46
Ethylbenzene	---	0.0050	1	06/21/2016 04:46
Xylenes	---	0.015	1	06/21/2016 04:46

Surrogates	REC (%)	Limits	
2-Fluorotoluene	97	70-130	06/21/2016 04:46

Analyst(s): IA

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-17	1606892-017A	Soil	06/20/2016 13:15	GC7	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 05:47
MTBE	---	0.050	1	06/21/2016 05:47
Benzene	---	0.0050	1	06/21/2016 05:47
Toluene	---	0.0050	1	06/21/2016 05:47
Ethylbenzene	---	0.0050	1	06/21/2016 05:47
Xylenes	---	0.015	1	06/21/2016 05:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	96	70-130	06/21/2016 05:47

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-18	1606892-018A	Soil	06/20/2016 13:20	GC7	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 06:17
MTBE	---	0.050	1	06/21/2016 06:17
Benzene	---	0.0050	1	06/21/2016 06:17
Toluene	---	0.0050	1	06/21/2016 06:17
Ethylbenzene	---	0.0050	1	06/21/2016 06:17
Xylenes	---	0.015	1	06/21/2016 06:17

Surrogates	REC (%)	Limits	
2-Fluorotoluene	98	70-130	06/21/2016 06:17

Analyst(s): IA

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-19	1606892-019A	Soil	06/20/2016 11:20	GC7	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 06:47
MTBE	---	0.050	1	06/21/2016 06:47
Benzene	---	0.0050	1	06/21/2016 06:47
Toluene	---	0.0050	1	06/21/2016 06:47
Ethylbenzene	---	0.0050	1	06/21/2016 06:47
Xylenes	---	0.015	1	06/21/2016 06:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	98	70-130	06/21/2016 06:47

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-20	1606892-020A	Soil	06/20/2016 12:35	GC7	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 07:17
MTBE	---	0.050	1	06/21/2016 07:17
Benzene	---	0.0050	1	06/21/2016 07:17
Toluene	---	0.0050	1	06/21/2016 07:17
Ethylbenzene	---	0.0050	1	06/21/2016 07:17
Xylenes	---	0.015	1	06/21/2016 07:17

Surrogates	REC (%)	Limits	
2-Fluorotoluene	98	70-130	06/21/2016 07:17

Analyst(s): IA

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-21	1606892-021A	Soil	06/20/2016 12:40	GC7	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 09:18
MTBE	---	0.050	1	06/21/2016 09:18
Benzene	---	0.0050	1	06/21/2016 09:18
Toluene	---	0.0050	1	06/21/2016 09:18
Ethylbenzene	---	0.0050	1	06/21/2016 09:18
Xylenes	---	0.015	1	06/21/2016 09:18

Surrogates	REC (%)	Limits	
2-Fluorotoluene	95	70-130	06/21/2016 09:18

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-22	1606892-022A	Soil	06/20/2016 12:55	GC7	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 08:48
MTBE	---	0.050	1	06/21/2016 08:48
Benzene	---	0.0050	1	06/21/2016 08:48
Toluene	---	0.0050	1	06/21/2016 08:48
Ethylbenzene	---	0.0050	1	06/21/2016 08:48
Xylenes	---	0.015	1	06/21/2016 08:48

Surrogates	REC (%)	Limits	
2-Fluorotoluene	97	70-130	06/21/2016 08:48

Analyst(s): IA

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW5030B
Date Prepared:	6/20/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-23	1606892-023A	Soil	06/20/2016 13:00	GC7	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 08:18
MTBE	---	0.050	1	06/21/2016 08:18
Benzene	---	0.0050	1	06/21/2016 08:18
Toluene	---	0.0050	1	06/21/2016 08:18
Ethylbenzene	---	0.0050	1	06/21/2016 08:18
Xylenes	---	0.015	1	06/21/2016 08:18

Surrogates	REC (%)	Limits	
2-Fluorotoluene	99	70-130	06/21/2016 08:18

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-24	1606892-024A	Soil	06/20/2016 13:05	GC7	122544

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/21/2016 07:47
MTBE	---	0.050	1	06/21/2016 07:47
Benzene	---	0.0050	1	06/21/2016 07:47
Toluene	---	0.0050	1	06/21/2016 07:47
Ethylbenzene	---	0.0050	1	06/21/2016 07:47
Xylenes	---	0.015	1	06/21/2016 07:47

Surrogates	REC (%)	Limits	
2-Fluorotoluene	97	70-130	06/21/2016 07:47

Analyst(s): IA

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3050B
Date Prepared:	6/20/16	**Analytical Method:**	SW6020
Project:	731641601; 23rd and Valdez	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-1	1606892-001A	Soil	06/20/2016 10:23	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**5.5**	0.50	1	06/21/2016 17:13
Chromium	**50**	0.50	1	06/21/2016 17:13
Lead	**6.6**	0.50	1	06/21/2016 17:13

Surrogates	REC (%)	Limits	
Terbium	91	70-130	06/21/2016 17:13

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-2	1606892-002A	Soil	06/20/2016 10:25	ICP-MS3	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.3**	0.50	1	06/21/2016 11:54
Chromium	**41**	0.50	1	06/21/2016 11:54
Lead	**5.8**	0.50	1	06/21/2016 11:54

Surrogates	REC (%)	Limits	
Terbium	110	70-130	06/21/2016 11:54

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-3	1606892-003A	Soil	06/20/2016 10:28	ICP-MS3	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.6**	0.50	1	06/21/2016 12:00
Chromium	**36**	0.50	1	06/21/2016 12:00
Lead	**4.6**	0.50	1	06/21/2016 12:00

Surrogates	REC (%)	Limits	
Terbium	116	70-130	06/21/2016 12:00

Analyst(s): DVH

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3050B
Date Prepared:	6/20/16	**Analytical Method:**	SW6020
Project:	731641601; 23rd and Valdez	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-4	**1606892-004A**	**Soil**	**06/20/2016 10:30**	**ICP-MS3**	**122545**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.8**	0.50	1	06/21/2016 12:06
Chromium	**93**	0.50	1	06/21/2016 12:06
Lead	**16**	0.50	1	06/21/2016 12:06

Surrogates	REC (%)	Limits	
Terbium	113	70-130	06/21/2016 12:06

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-5	**1606892-005A**	**Soil**	**06/20/2016 10:35**	**ICP-MS3**	**122545**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**5.3**	0.50	1	06/21/2016 12:13
Chromium	**43**	0.50	1	06/21/2016 12:13
Lead	**6.1**	0.50	1	06/21/2016 12:13

Surrogates	REC (%)	Limits	
Terbium	113	70-130	06/21/2016 12:13

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-6	**1606892-006A**	**Soil**	**06/20/2016 10:45**	**ICP-MS3**	**122545**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**0.90**	0.50	1	06/21/2016 12:19
Chromium	**29**	0.50	1	06/21/2016 12:19
Lead	**3.8**	0.50	1	06/21/2016 12:19

Surrogates	REC (%)	Limits	
Terbium	110	70-130	06/21/2016 12:19

Analyst(s): DVH

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3050B
Date Prepared:	6/20/16	**Analytical Method:**	SW6020
Project:	731641601; 23rd and Valdez	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-7	1606892-007A	Soil	06/20/2016 10:50	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**4.8**	0.50	1	06/21/2016 11:29
Chromium	**36**	0.50	1	06/21/2016 11:29
Lead	**7.7**	0.50	1	06/21/2016 11:29

Surrogates	REC (%)	Limits	
Terbium	106	70-130	06/21/2016 11:29

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-8	1606892-008A	Soil	06/20/2016 10:55	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.3**	0.50	1	06/21/2016 11:35
Chromium	**31**	0.50	1	06/21/2016 11:35
Lead	**3.8**	0.50	1	06/21/2016 11:35

Surrogates	REC (%)	Limits	
Terbium	106	70-130	06/21/2016 11:35

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-9	1606892-009A	Soil	06/20/2016 11:00	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.2**	0.50	1	06/21/2016 11:41
Chromium	**40**	0.50	1	06/21/2016 11:41
Lead	**4.6**	0.50	1	06/21/2016 11:41

Surrogates	REC (%)	Limits	
Terbium	107	70-130	06/21/2016 11:41

Analyst(s): DVH

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Analytical Report

Client: Treadwell & Rollo
Date Received: 6/20/16 14:45
Date Prepared: 6/20/16
Project: 731641601; 23rd and Valdez

WorkOrder: 1606892
Extraction Method: SW3050B
Analytical Method: SW6020
Unit: mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-10	1606892-010A	Soil	06/20/2016 11:05	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.9**	0.50	1	06/21/2016 11:47
Chromium	**29**	0.50	1	06/21/2016 11:47
Lead	**4.0**	0.50	1	06/21/2016 11:47

Surrogates	REC (%)	Limits	
Terbium	108	70-130	06/21/2016 11:47

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-11	1606892-011A	Soil	06/20/2016 12:10	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**4.2**	0.50	1	06/21/2016 11:53
Chromium	**33**	0.50	1	06/21/2016 11:53
Lead	**6.0**	0.50	1	06/21/2016 11:53

Surrogates	REC (%)	Limits	
Terbium	107	70-130	06/21/2016 11:53

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-12	1606892-012A	Soil	06/20/2016 12:25	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**4.2**	0.50	1	06/21/2016 12:50
Chromium	**45**	0.50	1	06/21/2016 12:50
Lead	**9.6**	0.50	1	06/21/2016 12:50

Surrogates	REC (%)	Limits	
Terbium	110	70-130	06/21/2016 12:50

Analyst(s): DVH

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3050B
Date Prepared:	6/20/16	**Analytical Method:**	SW6020
Project:	731641601; 23rd and Valdez	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-13	1606892-013A	Soil	06/20/2016 12:30	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**4.5**	0.50	1	06/21/2016 12:56
Chromium	**43**	0.50	1	06/21/2016 12:56
Lead	**12**	0.50	1	06/21/2016 12:56

Surrogates	REC (%)	Limits	
Terbium	109	70-130	06/21/2016 12:56

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-14	1606892-014A	Soil	06/20/2016 11:10	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**9.6**	0.50	1	06/21/2016 13:02
Chromium	**83**	0.50	1	06/21/2016 13:02
Lead	**8.5**	0.50	1	06/21/2016 13:02

Surrogates	REC (%)	Limits	
Terbium	113	70-130	06/21/2016 13:02

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-15	1606892-015A	Soil	06/20/2016 11:15	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.6**	0.50	1	06/21/2016 13:08
Chromium	**46**	0.50	1	06/21/2016 13:08
Lead	**8.8**	0.50	1	06/21/2016 13:08

Surrogates	REC (%)	Limits	
Terbium	110	70-130	06/21/2016 13:08

Analyst(s): DVH

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3050B
Date Prepared:	6/20/16	**Analytical Method:**	SW6020
Project:	731641601; 23rd and Valdez	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-16	**1606892-016A**	**Soil**	**06/20/2016 12:15**	**ICP-MS2**	**122545**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**6.0**	0.50	1	06/21/2016 13:14
Chromium	**48**	0.50	1	06/21/2016 13:14
Lead	**7.2**	0.50	1	06/21/2016 13:14

Surrogates	REC (%)	Limits	
Terbium	108	70-130	06/21/2016 13:14

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-17	**1606892-017A**	**Soil**	**06/20/2016 13:15**	**ICP-MS2**	**122545**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**10**	0.50	1	06/21/2016 13:39
Chromium	**72**	0.50	1	06/21/2016 13:39
Lead	**13**	0.50	1	06/21/2016 13:39

Surrogates	REC (%)	Limits	
Terbium	113	70-130	06/21/2016 13:39

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-18	**1606892-018A**	**Soil**	**06/20/2016 13:20**	**ICP-MS2**	**122545**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.5**	0.50	1	06/21/2016 13:45
Chromium	**31**	0.50	1	06/21/2016 13:45
Lead	**7.3**	0.50	1	06/21/2016 13:45

Surrogates	REC (%)	Limits	
Terbium	106	70-130	06/21/2016 13:45

Analyst(s): BBO

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3050B
Date Prepared:	6/20/16	**Analytical Method:**	SW6020
Project:	731641601; 23rd and Valdez	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-19	1606892-019A	Soil	06/20/2016 11:20	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.3**	0.50	1	06/21/2016 16:18
Chromium	**41**	0.50	1	06/21/2016 16:18
Lead	**9.5**	0.50	1	06/21/2016 16:18

Surrogates	REC (%)	Limits	
Terbium	107	70-130	06/21/2016 16:18

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-20	1606892-020A	Soil	06/20/2016 12:35	ICP-MS2	122545

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**9.8**	0.50	1	06/21/2016 16:24
Chromium	**53**	0.50	1	06/21/2016 16:24
Lead	**6.8**	0.50	1	06/21/2016 16:24

Surrogates	REC (%)	Limits	
Terbium	109	70-130	06/21/2016 16:24

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-21	1606892-021A	Soil	06/20/2016 12:40	ICP-MS2	122546

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**4.4**	0.50	1	06/21/2016 18:14
Chromium	**64**	0.50	1	06/21/2016 18:14
Lead	**6.8**	0.50	1	06/21/2016 18:14

Surrogates	REC (%)	Limits	
Terbium	116	70-130	06/21/2016 18:14

Analyst(s): BBO

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3050B
Date Prepared:	6/20/16	**Analytical Method:**	SW6020
Project:	731641601; 23rd and Valdez	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-22	1606892-022A	Soil	06/20/2016 12:55	ICP-MS2	122546

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.4**	0.50	1	06/21/2016 16:30
Chromium	**41**	0.50	1	06/21/2016 16:30
Lead	**5.0**	0.50	1	06/21/2016 16:30

Surrogates	REC (%)	Limits	
Terbium	113	70-130	06/21/2016 16:30

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-23	1606892-023A	Soil	06/20/2016 13:00	ICP-MS2	122546

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.9**	0.50	1	06/21/2016 16:36
Chromium	**64**	0.50	1	06/21/2016 16:36
Lead	**6.9**	0.50	1	06/21/2016 16:36

Surrogates	REC (%)	Limits	
Terbium	111	70-130	06/21/2016 16:36

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-24	1606892-024A	Soil	06/20/2016 13:05	ICP-MS2	122546

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.2**	0.50	1	06/21/2016 16:42
Chromium	**37**	0.50	1	06/21/2016 16:42
Lead	**4.6**	0.50	1	06/21/2016 16:42

Surrogates	REC (%)	Limits	
Terbium	109	70-130	06/21/2016 16:42

Analyst(s): BBO

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3550B
Date Prepared:	6/20/16-6/21/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-1	1606892-001A	Soil	06/20/2016 10:23	GC39B	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2016 17:45
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/20/2016 17:45

Surrogates	REC (%)	Limits	
C9	92	70-130	06/20/2016 17:45

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-2	1606892-002A	Soil	06/20/2016 10:25	GC11A	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2016 18:44
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/20/2016 18:44

Surrogates	REC (%)	Limits	
C9	91	70-130	06/20/2016 18:44

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-3	1606892-003A	Soil	06/20/2016 10:28	GC11A	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2016 20:02
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/20/2016 20:02

Surrogates	REC (%)	Limits	
C9	90	70-130	06/20/2016 20:02

Analyst(s): TK

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3550B
Date Prepared:	6/20/16-6/21/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-4	1606892-004A	Soil	06/20/2016 10:30	GC11A	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2016 21:20
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/20/2016 21:20

Surrogates	REC (%)	Limits	
C9	91	70-130	06/20/2016 21:20

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-5	1606892-005A	Soil	06/20/2016 10:35	GC11A	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 00:34
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 00:34

Surrogates	REC (%)	Limits	
C9	91	70-130	06/21/2016 00:34

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-6	1606892-006A	Soil	06/20/2016 10:45	GC11A	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 01:52
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 01:52

Surrogates	REC (%)	Limits	
C9	91	70-130	06/21/2016 01:52

Analyst(s): TK

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3550B
Date Prepared:	6/20/16-6/21/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-7	1606892-007A	Soil	06/20/2016 10:50	GC11A	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 03:10
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 03:10

Surrogates	REC (%)	Limits	
C9	92	70-130	06/21/2016 03:10

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-8	1606892-008A	Soil	06/20/2016 10:55	GC11A	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 04:28
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 04:28

Surrogates	REC (%)	Limits	
C9	91	70-130	06/21/2016 04:28

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-9	1606892-009A	Soil	06/20/2016 11:00	GC11A	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 07:03
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 07:03

Surrogates	REC (%)	Limits	
C9	91	70-130	06/21/2016 07:03

Analyst(s): TK

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3550B
Date Prepared:	6/20/16-6/21/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-10	1606892-010A	Soil	06/20/2016 11:05	GC9a	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 09:42
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 09:42

Surrogates	REC (%)	Limits	
C9	99	70-130	06/21/2016 09:42

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-11	1606892-011A	Soil	06/20/2016 12:10	GC9a	122518

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 10:20
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 10:20

Surrogates	REC (%)	Limits	
C9	99	70-130	06/21/2016 10:20

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-12	1606892-012A	Soil	06/20/2016 12:25	GC39B	122542

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2016 18:24
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/20/2016 18:24

Surrogates	REC (%)	Limits	
C9	93	70-130	06/20/2016 18:24

Analyst(s): TK

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3550B
Date Prepared:	6/20/16-6/21/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-13	**1606892-013A**	**Soil**	**06/20/2016 12:30**	**GC11B**	**122542**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**13**	1.0	1	06/20/2016 18:44
TPH-Motor Oil (C18-C36)	**140**	5.0	1	06/20/2016 18:44

Surrogates	REC (%)	Limits	
C9	94	70-130	06/20/2016 18:44

Analyst(s): TK Analytical Comments: e7,e2

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-14	**1606892-014A**	**Soil**	**06/20/2016 11:10**	**GC11B**	**122542**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2016 20:02
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/20/2016 20:02

Surrogates	REC (%)	Limits	
C9	93	70-130	06/20/2016 20:02

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-15	**1606892-015A**	**Soil**	**06/20/2016 11:15**	**GC11B**	**122542**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2016 21:20
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/20/2016 21:20

Surrogates	REC (%)	Limits	
C9	95	70-130	06/20/2016 21:20

Analyst(s): TK

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3550B
Date Prepared:	6/20/16-6/21/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-16	**1606892-016A**	**Soil**	**06/20/2016 12:15**	**GC11B**	**122542**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/20/2016 23:55
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/20/2016 23:55

Surrogates	REC (%)	Limits	
C9	93	70-130	06/20/2016 23:55

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-17	**1606892-017A**	**Soil**	**06/20/2016 13:15**	**GC11B**	**122542**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 01:13
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 01:13

Surrogates	REC (%)	Limits	
C9	93	70-130	06/21/2016 01:13

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-18	**1606892-018A**	**Soil**	**06/20/2016 13:20**	**GC11A**	**122542**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.7**	1.0	1	06/20/2016 17:12
TPH-Motor Oil (C18-C36)	**6.3**	5.0	1	06/20/2016 17:12

Surrogates	REC (%)	Limits	
C9	89	70-130	06/20/2016 17:12

Analyst(s): TK Analytical Comments: e7,e2

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3550B
Date Prepared:	6/20/16-6/21/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-19	1606892-019A	Soil	06/20/2016 11:20	GC11B	122558

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 13:33
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 13:33

Surrogates	REC (%)	Limits	
C9	93	70-130	06/21/2016 13:33

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-20	1606892-020A	Soil	06/20/2016 12:35	GC9a	122542

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 09:03
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 09:03

Surrogates	REC (%)	Limits	
C9	98	70-130	06/21/2016 09:03

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-21	1606892-021A	Soil	06/20/2016 12:40	GC39B	122542

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 00:14
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 00:14

Surrogates	REC (%)	Limits	
C9	92	70-130	06/21/2016 00:14

Analyst(s): TK

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Received:	6/20/16 14:45	**Extraction Method:**	SW3550B
Date Prepared:	6/20/16-6/21/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-22	1606892-022A	Soil	06/20/2016 12:55	GC11B	122542

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 12:54
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 12:54

Surrogates	REC (%)	Limits	
C9	93	70-130	06/21/2016 12:54

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-23	1606892-023A	Soil	06/20/2016 13:00	GC39B	122558

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/21/2016 13:34
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/21/2016 13:34

Surrogates	REC (%)	Limits	
C9	93	70-130	06/21/2016 13:34

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
C-24	1606892-024A	Soil	06/20/2016 13:05	GC11B	122542

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**15**	1.0	1	06/21/2016 14:40
TPH-Motor Oil (C18-C36)	**53**	5.0	1	06/21/2016 14:40

Surrogates	REC (%)	Limits	
C9	94	70-130	06/21/2016 14:40

Analyst(s): TK Analytical Comments: e7,e2

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Prepared:	6/20/16	**BatchID:**	122513
Date Analyzed:	6/21/16	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-122513

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.562	0.40	0.60	-	94	70-130
MTBE	ND	0.0801	0.050	0.10	-	80	70-130
Benzene	ND	0.0929	0.0050	0.10	-	93	70-130
Toluene	ND	0.0798	0.0050	0.10	-	80	70-130
Ethylbenzene	ND	0.0909	0.0050	0.10	-	91	70-130
Xylenes	ND	0.281	0.015	0.30	-	94	70-130
Surrogate Recovery							
2-Fluorotoluene	0.105	0.105		0.10	105	105	70-130

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Prepared:	6/20/16	**BatchID:**	122544
Date Analyzed:	6/21/16	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-122544 1606892-010AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.536	0.40	0.60	-	89	70-130
MTBE	ND	0.0812	0.050	0.10	-	81	70-130
Benzene	ND	0.0918	0.0050	0.10	-	92	70-130
Toluene	ND	0.0774	0.0050	0.10	-	77	70-130
Ethylbenzene	ND	0.0895	0.0050	0.10	-	90	70-130
Xylenes	ND	0.276	0.015	0.30	-	92	70-130
Surrogate Recovery							
2-Fluorotoluene	0.101	0.103		0.10	101	103	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.512	0.553	0.60	ND	85	92	70-130	7.77	20
MTBE	0.0740	0.0790	0.10	ND	74	79	70-130	6.45	20
Benzene	0.0762	0.0826	0.10	ND	76	83	70-130	7.99	20
Toluene	0.0868	0.0870	0.10	ND	87	87	70-130	0	20
Ethylbenzene	0.0925	0.0903	0.10	ND	93	90	70-130	2.43	20
Xylenes	0.280	0.276	0.30	ND	93	92	70-130	1.43	20
Surrogate Recovery									
2-Fluorotoluene	0.0917	0.0907	0.10		92	91	70-130	1.13	20

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Prepared:	6/20/16	**BatchID:**	122545
Date Analyzed:	6/21/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-122545 1606892-001AMS/MSD 1606892-001APDS

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	51.2	0.50	50	-	102	75-125
Chromium	ND	52.0	0.50	50	-	104	75-125
Lead	ND	49.4	0.50	50	-	99	75-125
Surrogate Recovery							
Terbium	540	553		500	108	111	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	59.9	60.3	50	5.476	109	110	75-125	0.649	20
Chromium	115	126	50	49.84	131,F10	152,F10	75-125	8.55	20
Lead	61.0	60.3	50	6.618	109	107	75-125	1.10	20
Surrogate Recovery									
Terbium	555	545	500		111	109	70-130	1.96	20

Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Chromium	96.3	50	49.84	93	75-125

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	5.40	5.476	1.39	-
Chromium	49.7	49.84	0.281	20
Lead	6.47	6.618	2.24	-

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

(Cont.)

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Prepared:	6/20/16	**BatchID:**	122546
Date Analyzed:	6/21/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-122546 1606892-021AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	51.2	0.50	50	-	102	75-125
Chromium	ND	52.5	0.50	50	-	105	75-125
Lead	ND	49.8	0.50	50	-	100	75-125
Surrogate Recovery							
Terbium	544	556		500	109	111	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	54.8	55.4	50	4.384	101	102	75-125	1.11	20
Chromium	114	107	50	63.51	100	87	75-125	5.80	20
Lead	59.1	61.2	50	6.804	105	109	75-125	3.42	20
Surrogate Recovery									
Terbium	565	584	500		113	117	70-130	3.24	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	4.27	4.384	2.60	-
Chromium	64.0	63.51	0.772	20
Lead	6.49	6.804	4.61	-

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

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Prepared:	6/20/16	**BatchID:**	122518
Date Analyzed:	6/20/16	**Extraction Method:**	SW3550B
Instrument:	GC39B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-122518 1606870-015AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	46.3	1.0	40	-	116	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	23.1	23.2		25	92	93	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	44.3	43.2	40	ND	111	108	70-130	2.39	30
Surrogate Recovery									
C9	27.3	27.3	25		109	109	70-130	0	30

(Cont.)

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QA/QC Officer

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Prepared:	6/20/16	**BatchID:**	122542
Date Analyzed:	6/20/16	**Extraction Method:**	SW3550B
Instrument:	GC11A, GC39B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-122542 1606892-012AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	46.2	1.0	40	-	115	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	23.0	22.6		25	92	90	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	49.1	48.0	40	ND	120	118	70-130	2.20	30
Surrogate Recovery									
C9	23.3	23.2	25		93	93	70-130	0	30

(Cont.)

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QA/QC Officer

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606892
Date Prepared:	6/20/16	**BatchID:**	122558
Date Analyzed:	6/21/16	**Extraction Method:**	SW3550B
Instrument:	GC39A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-122558 1606913-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	40.0	1.0	40	-	100	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	26.9	27.6		25	108	110	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	44.2	48.6	40	8.620	89	100	70-130	9.70	30
Surrogate Recovery									
C9	27.2	27.2	25		109	109	70-130	0	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1606892 **ClientCode: TWRF**

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

Report to:
Peter Cusack
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party: rnmilano@treadwellrollo.com;
PO: 731641601
ProjectNo: 731641601; 23rd and Valdez

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

Requested TAT: 1 day;

Date Received: **06/20/2016**
Date Logged: **06/20/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1606892-001	C-1	Soil	6/20/2016 10:23	☐	A	A	A									
1606892-002	C-2	Soil	6/20/2016 10:25	☐	A	A	A									
1606892-003	C-3	Soil	6/20/2016 10:28	☐	A	A	A									
1606892-004	C-4	Soil	6/20/2016 10:30	☐	A	A	A									
1606892-005	C-5	Soil	6/20/2016 10:35	☐	A	A	A									
1606892-006	C-6	Soil	6/20/2016 10:45	☐	A	A	A									
1606892-007	C-7	Soil	6/20/2016 10:50	☐	A	A	A									
1606892-008	C-8	Soil	6/20/2016 10:55	☐	A	A	A									
1606892-009	C-9	Soil	6/20/2016 11:00	☐	A	A	A									
1606892-010	C-10	Soil	6/20/2016 11:05	☐	A	A	A									
1606892-011	C-11	Soil	6/20/2016 12:10	☐	A	A	A									
1606892-012	C-12	Soil	6/20/2016 12:25	☐	A	A	A									
1606892-013	C-13	Soil	6/20/2016 12:30	☐	A	A	A									
1606892-014	C-14	Soil	6/20/2016 11:10	☐	A	A	A									
1606892-015	C-15	Soil	6/20/2016 11:15	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	METALSMS_TTLC_S	3	TPH(DMO)_S	4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A, 017A, 018A, 019A, 020A, 021A, 022A, 023A, 024A contain testgroup.

Comments:

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

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1606892 **ClientCode: TWRF**

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Report to:
Peter Cusack
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party: rnmilano@treadwellrollo.com;
PO: 731641601
ProjectNo: 731641601; 23rd and Valdez

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

Requested TAT: 1 day;

Date Received: **06/20/2016**
Date Logged: **06/20/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1606892-016	C-16	Soil	6/20/2016 12:15	☐	A	A	A									
1606892-017	C-17	Soil	6/20/2016 13:15	☐	A	A	A									
1606892-018	C-18	Soil	6/20/2016 13:20	☐	A	A	A									
1606892-019	C-19	Soil	6/20/2016 11:20	☐	A	A	A									
1606892-020	C-20	Soil	6/20/2016 12:35	☐	A	A	A									
1606892-021	C-21	Soil	6/20/2016 12:40	☐	A	A	A									
1606892-022	C-22	Soil	6/20/2016 12:55	☐	A	A	A									
1606892-023	C-23	Soil	6/20/2016 13:00	☐	A	A	A									
1606892-024	C-24	Soil	6/20/2016 13:05	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	METALSMS_TTLC_S	3	TPH(DMO)_S	4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014A, 015A, 016A, 017A, 018A, 019A, 020A, 021A, 022A, 023A, 024A contain testgroup.

Comments:

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641601; 23rd and Valdez
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1606892
Date Logged: 6/20/2016

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Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1606892-001A	C-1	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 10:23	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-002A	C-2	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Steel tube 2"x3"	☐	6/20/2016 10:25	1 day		☐	
			SW6020 (Metals) <Arsenic, Chromium, Lead>			☐		1 day		☐	
1606892-003A	C-3	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 10:28	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-004A	C-4	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 10:30	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-005A	C-5	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 10:35	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-006A	C-6	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 10:45	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-007A	C-7	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 10:50	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641601; 23rd and Valdez
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1606892
Date Logged: 6/20/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1606892-008A	C-8	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 10:55	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-009A	C-9	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 11:00	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-010A	C-10	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 11:05	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-011A	C-11	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 12:10	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-012A	C-12	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 12:25	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-013A	C-13	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 12:30	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-014A	C-14	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 11:10	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641601; 23rd and Valdez
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1606892
Date Logged: 6/20/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1606892-015A	C-15	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 11:15	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-016A	C-16	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 12:15	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-017A	C-17	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 13:15	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-018A	C-18	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 13:20	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-019A	C-19	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 11:20	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-020A	C-20	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 12:35	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-021A	C-21	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 12:40	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641601; 23rd and Valdez
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1606892
Date Logged: 6/20/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1606892-022A	C-22	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 12:55	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-023A	C-23	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 13:00	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606892-024A	C-24	Soil	SW6020 (Metals) <Arsenic, Chromium, Lead>	1	Stainless Steel tube 2"x3"	☐	6/20/2016 13:05	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

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RUSH

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1606892

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☒ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☐

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; **Claim #**_____

Report To: Peter Cusack / Rob Miland **Bill To:** Peter Cusack

Company: Langan Treadwell Rollo

555 Montgomery St. #1300 SF, CA 94111

Tele: (~~916~~) 415 955 5236 **E-Mail:** pcusack@langan.com

Project #: 731641601 **Project Name:** 23rd and Valdez

Project Location: Oakland **Purchase Order#** 731641601

Sampler Signature:

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPH g, diesel	Total Lead	Total Chromium	Arsenic
C-1		5-20-16	1023						X																					X	X	X	X
C-2			1025						X																					X	X	X	X
C-3			1028						X																					X	X	X	X
C-4			1030						X																					X	X	X	X
C-5			1035						X																					X	X	X	X
C-6			1045						X																					X	X	X	X
C-7			1050						X																					X	X	X	X
C-8			1055						X																					X	X	X	X
C-9			1100						X																					X	X	X	X
C-10			1105						X																					X	X	X	X
C-11		↓	1210						X																					X	X	X	X

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date:	Time:	Received By:
	5-20-16	1445	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 26.5
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

COMMENTS: 24 Hour TAT

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☒ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☐
GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐
Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; **Claim #**_____

Report To: Peter Cusack / Rob Milano **Bill To:** Peter Cusack
Company: Langan Treadwell Rollo
555 Montgomery St. #1300 SF, CA 94111
Tele: (415) 955-5236 **E-Mail:** pcusack@langan.com
Project #: 731641601 **Project Name:** 23rd and Valdez
Project Location: Oakland **Purchase Order#** 731641601
Sampler Signature:

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other	BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPHg, d, mo	Total lead	Total Chromium	Arsenic	
C-12		6/2016	1225						X																						X	X	X	X	
C-13			1230						X																						X	X	X	X	
C-14			1110						X																						X	X	X	X	
C-15			1115						X																						X	X	X	X	
C-16			1215						X																						X	X	X	X	
C-17			1315						X																						X	X	X	X	
C-18			1320						X																						X	X	X	X	
C-19			1120						X																						X	X	X	X	
C-20			1235						X																						X	X	X	X	
C-21			1240						X																						X	X	X	X	
C-22			1255						X																						X	X	X	X	

Analysis Request

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

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Relinquished By:	Date:	Time:	Received By:
	6-20-16	1445	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

COMMENTS: 24 Hour TAT

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH ☒ 1 DAY ☐ 2 DAY ☐ 3 DAY ☐ 5 DAY ☐

GeoTracker EDF ☐ PDF ☐ EDD ☐ Write On (DW) ☐ EQuIS ☐ 10 DAY ☐

Effluent Sample Requiring "J" flag ☐ **UST Clean Up Fund Project** ☐ ; **Claim #**_____

Report To: Peter Cusack / Rob Miland **Bill To:** Peter Cusack

Company: Langan Treadwell Rollo

555 Montgomery St, #1300 SF, CA 94111

Tele: (415) 955 5236 **E-Mail:** pcusack@langan.com

Project #: 731641601 **Project Name:** 23rd and Valdez

Project Location: Oakland **Purchase Order#** 731641601

Sampler Signature:

SAMPLE ID	Location/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	MATRIX: Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	METHOD PRESERVED: HCL	HNO_3	Other
C-23		6-20-16	1300						X						
C-24		6-20-16	1305						X						

Analysis Request

BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	TPH g, d and m	Total lead	Total chromium	Arsenic	
															X	X	X	X	
															X	X	X	X	

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*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By:	Date:	Time:	Received By:
	6-20-16	1445	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°_____
GOOD CONDITION_____
HEAD SPACE ABSENT_____
DECHLORINATED IN LAB_____
APPROPRIATE CONTAINERS_____
PRESERVED IN LAB_____

COMMENTS: 24 Hour TAT

VOAS O&G METALS OTHER HAZARDOUS:
PRESERVATION_____ pH<2_____

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Sample Receipt Checklist

Client Name:	**Treadwell & Rollo**	Date and Time Received:	**6/20/2016 14:45**
Project Name:	**731641601; 23rd and Valdez**	Date Logged:	**6/20/2016**
WorkOrder №:	**1606892** Matrix: Soil	Received by:	Maria Venegas
Carrier:	Client Drop-In	Logged by:	Jena Alfaro

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 26.5°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1604D20

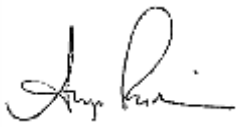
Report Created for: Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

Project Contact: Peter Cusack
Project P.O.:
Project Name: 731641603; Alta Waverly

Project Received: 04/29/2016

Analytical Report reviewed & approved for release on 05/02/2016 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641603; Alta Waverly
WorkOrder: 1604D20

Glossary Abbreviation

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

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641603; Alta Waverly
WorkOrder: 1604D20

Analytical Qualifiers

d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
d9	no recognizable pattern
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant
e8	kerosene/kerosene range/jet fuel range
e11/e4	stoddard solvent/mineral spirit (?); and/or gasoline range compounds are significant.

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW5030B
Date Prepared:	4/29/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641603; Alta Waverly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-3-5.5'	1604D20-001A	Soil	04/28/2016 10:40	GC3	120305

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	04/30/2016 06:43
MTBE	---	0.050	1	04/30/2016 06:43
Benzene	---	0.0050	1	04/30/2016 06:43
Toluene	---	0.0050	1	04/30/2016 06:43
Ethylbenzene	---	0.0050	1	04/30/2016 06:43
Xylenes	---	0.015	1	04/30/2016 06:43

Surrogates	REC (%)	Limits	
2-Fluorotoluene	91	70-130	04/30/2016 06:43

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-10-6'	1604D20-002A	Soil	04/28/2016 10:28	GC3	120305

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	04/30/2016 07:14
MTBE	---	0.050	1	04/30/2016 07:14
Benzene	---	0.0050	1	04/30/2016 07:14
Toluene	---	0.0050	1	04/30/2016 07:14
Ethylbenzene	---	0.0050	1	04/30/2016 07:14
Xylenes	---	0.015	1	04/30/2016 07:14

Surrogates	REC (%)	Limits	
2-Fluorotoluene	91	70-130	04/30/2016 07:14

Analyst(s): LT

(Cont.)

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW5030B
Date Prepared:	4/29/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641603; Alta Waverly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-17-7'	**1604D20-003A**	**Soil**	**04/28/2016 08:50**	**GC3**	**120305**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	04/30/2016 08:44
MTBE	---	0.050	1	04/30/2016 08:44
Benzene	---	0.0050	1	04/30/2016 08:44
Toluene	---	0.0050	1	04/30/2016 08:44
Ethylbenzene	---	0.0050	1	04/30/2016 08:44
Xylenes	---	0.015	1	04/30/2016 08:44

Surrogates	REC (%)	Limits	
2-Fluorotoluene	91	70-130	04/30/2016 08:44

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-18-10'	**1604D20-004A**	**Soil**	**04/28/2016 09:02**	**GC3**	**120305**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	04/30/2016 09:15
MTBE	---	0.050	1	04/30/2016 09:15
Benzene	---	0.0050	1	04/30/2016 09:15
Toluene	---	0.0050	1	04/30/2016 09:15
Ethylbenzene	---	0.0050	1	04/30/2016 09:15
Xylenes	---	0.015	1	04/30/2016 09:15

Surrogates	REC (%)	Limits	
2-Fluorotoluene	86	70-130	04/30/2016 09:15

Analyst(s): LT

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW5030B
Date Prepared:	4/29/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641603; Alta Waverly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-19-7'	**1604D20-005A**	**Soil**	**04/28/2016 09:07**	**GC3**	**120305**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**2.4**	1.0	1	04/30/2016 09:45
MTBE	**---**	0.050	1	04/30/2016 09:45
Benzene	**---**	0.0050	1	04/30/2016 09:45
Toluene	**---**	0.0050	1	04/30/2016 09:45
Ethylbenzene	**---**	0.0050	1	04/30/2016 09:45
Xylenes	**---**	0.015	1	04/30/2016 09:45

Surrogates	REC (%)	Limits	
2-Fluorotoluene	83	70-130	04/30/2016 09:45

Analyst(s): LT Analytical Comments: d7,d9

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-21-7'	**1604D20-006A**	**Soil**	**04/28/2016 09:14**	**GC3**	**120305**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**2.4**	1.0	1	04/30/2016 10:16
MTBE	**---**	0.050	1	04/30/2016 10:16
Benzene	**---**	0.0050	1	04/30/2016 10:16
Toluene	**---**	0.0050	1	04/30/2016 10:16
Ethylbenzene	**---**	0.0050	1	04/30/2016 10:16
Xylenes	**---**	0.015	1	04/30/2016 10:16

Surrogates	REC (%)	Limits	
2-Fluorotoluene	82	70-130	04/30/2016 10:16

Analyst(s): LT Analytical Comments: d7,d9

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW5030B
Date Prepared:	4/29/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641603; Alta Waverly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-25-7'	**1604D20-007A**	**Soil**	**04/28/2016 09:44**	**GC3**	**120305**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	04/30/2016 13:03
MTBE	---	0.050	1	04/30/2016 13:03
Benzene	---	0.0050	1	04/30/2016 13:03
Toluene	---	0.0050	1	04/30/2016 13:03
Ethylbenzene	---	0.0050	1	04/30/2016 13:03
Xylenes	---	0.015	1	04/30/2016 13:03

Surrogates	REC (%)	Limits	
2-Fluorotoluene	90	70-130	04/30/2016 13:03

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-26-7'	**1604D20-008A**	**Soil**	**04/28/2016 09:56**	**GC3**	**120305**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	**200**	50	50	05/02/2016 14:12
MTBE	---	2.5	50	05/02/2016 14:12
Benzene	---	0.25	50	05/02/2016 14:12
Toluene	---	0.25	50	05/02/2016 14:12
Ethylbenzene	---	0.25	50	05/02/2016 14:12
Xylenes	---	0.75	50	05/02/2016 14:12

Surrogates	REC (%)	Limits	
2-Fluorotoluene	108	70-130	05/02/2016 14:12

Analyst(s): LT Analytical Comments: d7,d9

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW5030B
Date Prepared:	4/29/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641603; Alta Waverly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-33-7'	**1604D20-009A**	**Soil**	**04/28/2016 09:24**	**GC3**	**120305**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	04/30/2016 13:33
MTBE	---	0.050	1	04/30/2016 13:33
Benzene	---	0.0050	1	04/30/2016 13:33
Toluene	---	0.0050	1	04/30/2016 13:33
Ethylbenzene	---	0.0050	1	04/30/2016 13:33
Xylenes	---	0.015	1	04/30/2016 13:33

Surrogates	REC (%)	Limits	
2-Fluorotoluene	92	70-130	04/30/2016 13:33

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-24-7'	**1604D20-010A**	**Soil**	**04/27/2016 12:22**	**GC3**	**120305**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	04/30/2016 14:03
MTBE	---	0.050	1	04/30/2016 14:03
Benzene	---	0.0050	1	04/30/2016 14:03
Toluene	---	0.0050	1	04/30/2016 14:03
Ethylbenzene	---	0.0050	1	04/30/2016 14:03
Xylenes	---	0.015	1	04/30/2016 14:03

Surrogates	REC (%)	Limits	
2-Fluorotoluene	94	70-130	04/30/2016 14:03

Analyst(s): LT

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW3050B
Date Prepared:	4/29/16	**Analytical Method:**	SW6020
Project:	731641603; Alta Waverly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-3-5.5'	**1604D20-001A**	**Soil**	**04/28/2016 10:40**	**ICP-MS1**	**120297**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.8**	0.50	1	05/02/2016 10:35
Cadmium	ND	0.25	1	05/02/2016 10:35
Chromium	**33**	0.50	1	05/02/2016 10:35
Lead	**4.8**	0.50	1	05/02/2016 10:35
Nickel	**44**	0.50	1	05/02/2016 10:35
Zinc	**29**	5.0	1	05/02/2016 10:35

Surrogates	REC (%)	Limits	
Terbium	110	70-130	05/02/2016 10:35

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-10-6'	**1604D20-002A**	**Soil**	**04/28/2016 10:28**	**ICP-MS1**	**120297**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.6**	0.50	1	05/02/2016 10:41
Cadmium	ND	0.25	1	05/02/2016 10:41
Chromium	**34**	0.50	1	05/02/2016 10:41
Lead	**5.6**	0.50	1	05/02/2016 10:41
Nickel	**62**	0.50	1	05/02/2016 10:41
Zinc	**35**	5.0	1	05/02/2016 10:41

Surrogates	REC (%)	Limits	
Terbium	111	70-130	05/02/2016 10:41

Analyst(s): BBO

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW3050B
Date Prepared:	4/29/16	**Analytical Method:**	SW6020
Project:	731641603; Alta Waverly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-17-7'	**1604D20-003A**	**Soil**	**04/28/2016 08:50**	**ICP-MS1**	**120297**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**6.2**	0.50	1	05/02/2016 10:47
Cadmium	**0.26**	0.25	1	05/02/2016 10:47
Chromium	**59**	0.50	1	05/02/2016 10:47
Lead	**8.7**	0.50	1	05/02/2016 10:47
Nickel	**62**	0.50	1	05/02/2016 10:47
Zinc	**65**	5.0	1	05/02/2016 10:47

Surrogates	REC (%)	Limits	
Terbium	111	70-130	05/02/2016 10:47

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-18-10'	**1604D20-004A**	**Soil**	**04/28/2016 09:02**	**ICP-MS1**	**120297**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**8.4**	0.50	1	05/02/2016 10:53
Cadmium	ND	0.25	1	05/02/2016 10:53
Chromium	**86**	0.50	1	05/02/2016 10:53
Lead	**8.9**	0.50	1	05/02/2016 10:53
Nickel	**74**	0.50	1	05/02/2016 10:53
Zinc	**31**	5.0	1	05/02/2016 10:53

Surrogates	REC (%)	Limits	
Terbium	113	70-130	05/02/2016 10:53

Analyst(s): BBO

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW3050B
Date Prepared:	4/29/16	**Analytical Method:**	SW6020
Project:	731641603; Alta Waverly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-19-7'	**1604D20-005A**	**Soil**	**04/28/2016 09:07**	**ICP-MS1**	**120297**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.7**	0.50	1	05/02/2016 11:00
Cadmium	**0.43**	0.25	1	05/02/2016 11:00
Chromium	**43**	0.50	1	05/02/2016 11:00
Lead	**5.6**	0.50	1	05/02/2016 11:00
Nickel	**61**	0.50	1	05/02/2016 11:00
Zinc	**46**	5.0	1	05/02/2016 11:00

Surrogates	REC (%)	Limits	
Terbium	108	70-130	05/02/2016 11:00

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-21-7'	**1604D20-006A**	**Soil**	**04/28/2016 09:14**	**ICP-MS1**	**120297**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.6**	0.50	1	05/02/2016 11:37
Cadmium	**0.31**	0.25	1	05/02/2016 11:37
Chromium	**40**	0.50	1	05/02/2016 11:37
Lead	**5.9**	0.50	1	05/02/2016 11:37
Nickel	**60**	0.50	1	05/02/2016 11:37
Zinc	**40**	5.0	1	05/02/2016 11:37

Surrogates	REC (%)	Limits	
Terbium	111	70-130	05/02/2016 11:37

Analyst(s): BBO

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW3050B
Date Prepared:	4/29/16	**Analytical Method:**	SW6020
Project:	731641603; Alta Waverly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-25-7'	**1604D20-007A**	**Soil**	**04/28/2016 09:44**	**ICP-MS1**	**120297**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.9**	0.50	1	05/02/2016 14:04
Cadmium	ND	0.25	1	05/02/2016 14:04
Chromium	**34**	0.50	1	05/02/2016 14:04
Lead	**4.6**	0.50	1	05/02/2016 14:04
Nickel	**35**	0.50	1	05/02/2016 14:04
Zinc	**28**	5.0	1	05/02/2016 14:04

Surrogates	REC (%)	Limits	
Terbium	102	70-130	05/02/2016 14:04

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-26-7'	**1604D20-008A**	**Soil**	**04/28/2016 09:56**	**ICP-MS1**	**120297**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**5.0**	0.50	1	05/02/2016 14:11
Cadmium	ND	0.25	1	05/02/2016 14:11
Chromium	**45**	0.50	1	05/02/2016 14:11
Lead	**24**	0.50	1	05/02/2016 14:11
Nickel	**66**	0.50	1	05/02/2016 14:11
Zinc	**33**	5.0	1	05/02/2016 14:11

Surrogates	REC (%)	Limits	
Terbium	101	70-130	05/02/2016 14:11

Analyst(s): DB

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW3050B
Date Prepared:	4/29/16	**Analytical Method:**	SW6020
Project:	731641603; Alta Waverly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-33-7'	**1604D20-009A**	**Soil**	**04/28/2016 09:24**	**ICP-MS1**	**120297**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.6**	0.50	1	05/02/2016 14:17
Cadmium	ND	0.25	1	05/02/2016 14:17
Chromium	**45**	0.50	1	05/02/2016 14:17
Lead	**6.8**	0.50	1	05/02/2016 14:17
Nickel	**73**	0.50	1	05/02/2016 14:17
Zinc	**44**	5.0	1	05/02/2016 14:17

Surrogates	REC (%)	Limits	
Terbium	111	70-130	05/02/2016 14:17

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-24-7'	**1604D20-010A**	**Soil**	**04/27/2016 12:22**	**ICP-MS1**	**120302**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.2**	0.50	1	05/02/2016 14:30
Cadmium	ND	0.25	1	05/02/2016 14:30
Chromium	**39**	0.50	1	05/02/2016 14:30
Lead	**6.4**	0.50	1	05/02/2016 14:30
Nickel	**53**	0.50	1	05/02/2016 14:30
Zinc	**32**	5.0	1	05/02/2016 14:30

Surrogates	REC (%)	Limits	
Terbium	102	70-130	05/02/2016 14:30

Analyst(s): DB

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW3550B
Date Prepared:	4/29/16	**Analytical Method:**	SW8015B
Project:	731641603; Alta Waverly	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-3-5.5'	1604D20-001A	Soil	04/28/2016 10:40	GC9b	120255

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	04/29/2016 20:17
TPH-Motor Oil (C18-C36)	ND	5.0	1	04/29/2016 20:17

Surrogates	REC (%)	Limits	
C9	95	70-130	04/29/2016 20:17

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-10-6'	1604D20-002A	Soil	04/28/2016 10:28	GC9a	120255

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	04/29/2016 20:17
TPH-Motor Oil (C18-C36)	ND	5.0	1	04/29/2016 20:17

Surrogates	REC (%)	Limits	
C9	93	70-130	04/29/2016 20:17

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-17-7'	1604D20-003A	Soil	04/28/2016 08:50	GC9b	120255

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	04/29/2016 21:35
TPH-Motor Oil (C18-C36)	ND	5.0	1	04/29/2016 21:35

Surrogates	REC (%)	Limits	
C9	95	70-130	04/29/2016 21:35

Analyst(s): TK

(Cont.)

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW3550B
Date Prepared:	4/29/16	**Analytical Method:**	SW8015B
Project:	731641603; Alta Waverly	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-18-10'	**1604D20-004A**	**Soil**	**04/28/2016 09:02**	**GC9a**	**120255**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	04/29/2016 21:35
TPH-Motor Oil (C18-C36)	ND	5.0	1	04/29/2016 21:35

Surrogates	REC (%)	Limits	
C9	92	70-130	04/29/2016 21:35

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-19-7'	**1604D20-005A**	**Soil**	**04/28/2016 09:07**	**GC9b**	**120255**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.8**	1.0	1	04/29/2016 22:52
TPH-Motor Oil (C18-C36)	**15**	5.0	1	04/29/2016 22:52

Surrogates	REC (%)	Limits	
C9	95	70-130	04/29/2016 22:52

Analyst(s): TK Analytical Comments: e7,e2,e11/e4,e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-21-7'	**1604D20-006A**	**Soil**	**04/28/2016 09:14**	**GC9a**	**120255**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	04/29/2016 22:52
TPH-Motor Oil (C18-C36)	ND	5.0	1	04/29/2016 22:52

Surrogates	REC (%)	Limits	
C9	91	70-130	04/29/2016 22:52

Analyst(s): TK

(Cont.)

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW3550B
Date Prepared:	4/29/16	**Analytical Method:**	SW8015B
Project:	731641603; Alta Waverly	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-25-7'	**1604D20-007A**	**Soil**	**04/28/2016 09:44**	**GC9b**	**120255**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	04/30/2016 00:10
TPH-Motor Oil (C18-C36)	ND	5.0	1	04/30/2016 00:10

Surrogates	REC (%)	Limits	
C9	94	70-130	04/30/2016 00:10

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-26-7'	**1604D20-008A**	**Soil**	**04/28/2016 09:56**	**GC9b**	**120255**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**760**	100	100	05/02/2016 12:43
TPH-Motor Oil (C18-C36)	**5800**	500	100	05/02/2016 12:43

Surrogates	REC (%)	Limits	
C9	128	70-130	05/02/2016 12:43

Analyst(s): TK Analytical Comments: e7,e2,e11/e4,e8

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-33-7'	**1604D20-009A**	**Soil**	**04/28/2016 09:24**	**GC9b**	**120255**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	04/30/2016 01:27
TPH-Motor Oil (C18-C36)	ND	5.0	1	04/30/2016 01:27

Surrogates	REC (%)	Limits	
C9	94	70-130	04/30/2016 01:27

Analyst(s): TK

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Received:	4/29/16 16:20	**Extraction Method:**	SW3550B
Date Prepared:	4/29/16	**Analytical Method:**	SW8015B
Project:	731641603; Alta Waverly	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-24-7'	**1604D20-010A**	**Soil**	**04/27/2016 12:22**	**GC9b**	**120255**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/02/2016 12:04
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/02/2016 12:04

Surrogates	REC (%)	Limits	
C9	94	70-130	05/02/2016 12:04

Analyst(s): TK

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Prepared:	4/29/16	**BatchID:**	120305
Date Analyzed:	4/30/16 - 5/2/16	**Extraction Method:**	SW5030B
Instrument:	GC3, GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641603; Alta Waverly	**Sample ID:**	MB/LCS-120305 1604D20-010AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.642	0.40	0.60	-	107	70-130
MTBE	ND	0.0898	0.050	0.10	-	90	70-130
Benzene	ND	0.0908	0.0050	0.10	-	91	70-130
Toluene	ND	0.0975	0.0050	0.10	-	97	70-130
Ethylbenzene	ND	0.0999	0.0050	0.10	-	100	70-130
Xylenes	ND	0.304	0.015	0.30	-	101	70-130
Surrogate Recovery							
2-Fluorotoluene	0.114	0.0963		0.10	115	96	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.491	0.497	0.60	ND	82	83	70-130	1.35	20
MTBE	0.0941	0.0932	0.10	ND	94	93	70-130	0.997	20
Benzene	0.0930	0.0928	0.10	ND	93	93	70-130	0	20
Toluene	0.0825	0.0822	0.10	ND	83	82	70-130	0.404	20
Ethylbenzene	0.0955	0.0943	0.10	ND	95	94	70-130	1.20	20
Xylenes	0.298	0.295	0.30	ND	99	98	70-130	1.07	20
Surrogate Recovery									
2-Fluorotoluene	0.113	0.109	0.10		113	109	70-130	3.39	20

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Prepared:	4/29/16	**BatchID:**	120297
Date Analyzed:	5/2/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641603; Alta Waverly	**Sample ID:**	MB/LCS-120297

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	53.8	0.50	50	-	108	75-125
Cadmium	ND	52.9	0.25	50	-	106	75-125
Chromium	ND	53.5	0.50	50	-	107	75-125
Lead	ND	56.4	0.50	50	-	113	75-125
Nickel	ND	53.7	0.50	50	-	107	75-125
Zinc	ND	537	5.0	500	-	107	75-125
Surrogate Recovery							
Terbium	579	588		500	116	118	70-130

(Cont.)

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Prepared:	4/29/16	**BatchID:**	120302
Date Analyzed:	5/2/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641603; Alta Waverly	**Sample ID:**	MB/LCS-120302 1604D20-010AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	51.5	0.50	50	-	103	75-125
Cadmium	ND	49.7	0.25	50	-	99	75-125
Chromium	ND	50.1	0.50	50	-	100	75-125
Lead	ND	53.8	0.50	50	-	108	75-125
Nickel	ND	50.9	0.50	50	-	102	75-125
Zinc	ND	513	5.0	500	-	103	75-125
Surrogate Recovery							
Terbium	553	564		500	111	113	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	54.8	52.4	50	3.157	103	98	75-125	4.55	20
Cadmium	54.6	51.8	50	ND	109	103	75-125	5.19	20
Chromium	101	96.6	50	38.90	123	115	75-125	4.08	20
Lead	58.8	57.0	50	6.369	105	101	75-125	3.13	20
Nickel	112	104	50	52.57	118	102	75-125	7.43	20
Zinc	576	555	500	31.91	109	105	75-125	3.64	20
Surrogate Recovery									
Terbium	546	522	500		109	104	70-130	4.44	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	2.61	3.157	17.3	-
Cadmium	ND<1.2	ND	-	-
Chromium	41.2	38.90	5.91	10
Lead	6.72	6.369	5.51	-
Nickel	53.9	52.57	2.53	10
Zinc	34.2	31.91	7.18	-

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

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1604D20
Date Prepared:	4/28/16	**BatchID:**	120255
Date Analyzed:	4/28/16 - 4/29/16	**Extraction Method:**	SW3550B
Instrument:	GC39B, GC9a	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641603; Alta Waverly	**Sample ID:**	MB/LCS-120255 1604C63-002AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	48.0	1.0	40	-	120	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	22.4	23.4		25	90	94	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	73.6	82.0	40	24.36	123	144,F1	70-130	10.8	30
Surrogate Recovery									
C9	23.2	23.7	25		93	95	70-130	2.03	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1604D20 **ClientCode: TWRF**

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

Report to:
Peter Cusack
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party: kstaehlin@langan.com;
PO:
ProjectNo: 731641603; Alta Waverly

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

Requested TAT: 1 day;

Date Received: **04/29/2016**
Date Logged: **04/29/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1604D20-001	SP-3-5.5'	Soil	4/28/2016 10:40	☐	A	A	A									
1604D20-002	SP-10-6'	Soil	4/28/2016 10:28	☐	A	A	A									
1604D20-003	SP-17-7'	Soil	4/28/2016 8:50	☐	A	A	A									
1604D20-004	SP-18-10'	Soil	4/28/2016 9:02	☐	A	A	A									
1604D20-005	SP-19-7'	Soil	4/28/2016 9:07	☐	A	A	A									
1604D20-006	SP-21-7'	Soil	4/28/2016 9:14	☐	A	A	A									
1604D20-007	SP-25-7'	Soil	4/28/2016 9:44	☐	A	A	A									
1604D20-008	SP-26-7'	Soil	4/28/2016 9:56	☐	A	A	A									
1604D20-009	SP-33-7'	Soil	4/28/2016 9:24	☐	A	A	A									
1604D20-010	SP-24-7'	Soil	4/27/2016 12:22	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	METALSMS_TTLC_S	3	TPH(DMO)_S	4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A contain testgroup.

Comments:

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641603; Alta Waverly
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1604D20
Date Logged: 4/29/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1604D20-001A	SP-3-5.5'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	4/28/2016 10:40	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1604D20-002A	SP-10-6'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	4/28/2016 10:28	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1604D20-003A	SP-17-7'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	4/28/2016 8:50	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1604D20-004A	SP-18-10'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	4/28/2016 9:02	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1604D20-005A	SP-19-7'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	4/28/2016 9:07	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1604D20-006A	SP-21-7'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	4/28/2016 9:14	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1604D20-007A	SP-25-7'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	4/28/2016 9:44	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641603; Alta Waverly
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1604D20
Date Logged: 4/29/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1604D20-008A	SP-26-7'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	4/28/2016 9:56	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1604D20-009A	SP-33-7'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	4/28/2016 9:24	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1604D20-010A	SP-24-7'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2.5"x6"	☐	4/27/2016 12:22	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1604D20

007991

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

RUSH

Page 1 of 1

- [X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
- [ ] 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
- [ ] 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413
- [ ] 50 Airport Parkway, Suite 175, San Jose, CA 95110 Ph: 408.437.7708/Fax: 408.437.7709

Site Name: ALTA WAVERLY
Job Number: 731CA1603
Project Manager\Contact: PETER CUSACK
Samplers: KSS
Recorder (Signature Required): [signature]

Turnaround Time: ~~STANDARD~~ 24-HOUR RUSH

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Air	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Analysis Requested: TPH g,d,mo	LUFT 5	TOTAL ARSENIC	Silica gel clean-up	Hold	Remarks
SP-3-5.5'	4/28/16	1040		X							X	X	X	X			
SP-10-6'		1028		X							X	X	X	X			
SP-17-7'		0850		X							X	X	X	X			
SP-18-10'		0902		X							X	X	X	X			
SP-19-7'		0907		X							X	X	X	X			
SP-21-7'		0914		X							X	X	X	X			
SP-25-7'		0944		X							X	X	X	X			
SP-26-7'		0956		X							X	X	X	X			
SP-33-7'	4/28/16	0924		X							X	X	X	X			
SP-24-7'	4/27/16	1222		X							X	X	X	X			

Relinquished by: (Signature) [signature]	Date 4-29-16	Time 1020	Received by: (Signature) [signature]	Date 4-29-16 Time 1020
Relinquished by: (Signature) [signature]	Date 4-29-16	Time 1620	Received by: (Signature) [signature]	Date 4/29/16 Time 1620
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date Time

Sent to Laboratory (Name): McCAMPBELL ANALYTICAL

Laboratory Comments/Notes:
ICE/t° 5.5
GOOD CONDITION ~~APPROPRIATE~~
~~CONTAINERS~~ CONTAINERS
DECHLORINATED IN LAB PRESERVED IN LAB

PRESERVATION	VOAS	O&G	METALS	OTHER

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

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

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Sample Receipt Checklist

Client Name:	**Treadwell & Rollo**	Date and Time Received:	**4/29/2016 16:20**
Project Name:	**731641603; Alta Waverly**	Date Logged:	**4/29/2016**
WorkOrder №:	**1604D20** Matrix: Soil	Received by:	Maria Venegas
Carrier:	Bernie Cummins (MAI Courier)	Logged by:	Maria Venegas

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 5.5°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1605103

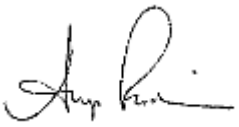
Report Created for: Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

Project Contact: Peter Cusack
Project P.O.: 731641601
Project Name: 23rd and Valdez

Project Received: 05/04/2016

Analytical Report reviewed & approved for release on 05/05/2016 by:



Angela Rydelius,
Laboratory Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CDPH ELAP 1644 ♦ NELAP 4033ORELAP

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641601; 23rd and Valdez
WorkOrder: 1605103

Glossary Abbreviation

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

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605103
Date Received:	5/4/16 16:04	**Extraction Method:**	SW5030B
Date Prepared:	5/4/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-40-8	**1605103-001A**	**Soil**	**05/03/2016**	**GC3**	**120443**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	05/05/2016 09:35
MTBE	---	0.050	1	05/05/2016 09:35
Benzene	---	0.0050	1	05/05/2016 09:35
Toluene	---	0.0050	1	05/05/2016 09:35
Ethylbenzene	---	0.0050	1	05/05/2016 09:35
Xylenes	---	0.015	1	05/05/2016 09:35

Surrogates	REC (%)	Limits	
2-Fluorotoluene	93	70-130	05/05/2016 09:35

Analyst(s): LT

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605103
Date Received:	5/4/16 16:04	**Extraction Method:**	SW3050B
Date Prepared:	5/4/16	**Analytical Method:**	SW6020
Project:	731641601; 23rd and Valdez	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-40-8	**1605103-001A**	**Soil**	**05/03/2016**	**ICP-MS1**	**120498**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**4.2**	0.50	1	05/05/2016 14:50
Cadmium	ND	0.25	1	05/05/2016 14:50
Chromium	**56**	0.50	1	05/05/2016 14:50
Lead	**8.7**	0.50	1	05/05/2016 14:50
Nickel	**59**	0.50	1	05/05/2016 14:50
Zinc	**55**	5.0	1	05/05/2016 14:50

Surrogates	REC (%)	Limits	
Terbium	117	70-130	05/05/2016 14:50

Analyst(s): DVH

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605103
Date Received:	5/4/16 16:04	**Extraction Method:**	SW3550B
Date Prepared:	5/4/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-40-8	**1605103-001A**	**Soil**	**05/03/2016**	**GC9b**	**120448**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/05/2016 12:05
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/05/2016 12:05

Surrogates	REC (%)	Limits	
C9	92	70-130	05/05/2016 12:05

Analyst(s): TK

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605103
Date Prepared:	5/3/16	**BatchID:**	120443
Date Analyzed:	5/4/16	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-120443 1605059-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.559	0.40	0.60	-	93	70-130
MTBE	ND	0.0944	0.050	0.10	-	94	70-130
Benzene	ND	0.102	0.0050	0.10	-	102	70-130
Toluene	ND	0.0906	0.0050	0.10	-	91	70-130
Ethylbenzene	ND	0.102	0.0050	0.10	-	102	70-130
Xylenes	ND	0.320	0.015	0.30	-	107	70-130
Surrogate Recovery							
2-Fluorotoluene	0.124	0.119		0.10	124	119	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.534	0.580	0.60	ND	89	97	70-130	8.40	20
MTBE	0.0693	0.0888	0.10	ND	69,F1	89	70-130	24.6,F1	20
Benzene	0.0698	0.0938	0.10	ND	70	94	70-130	29.3,F1	20
Toluene	0.0821	0.0982	0.10	ND	82	98	70-130	17.8	20
Ethylbenzene	0.0874	0.0969	0.10	ND	87	97	70-130	10.2	20
Xylenes	0.265	0.292	0.30	ND	87	96	70-130	9.80	20
Surrogate Recovery									
2-Fluorotoluene	0.0815	0.0950	0.10		81	95	70-130	15.4	20

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605103
Date Prepared:	5/4/16	**BatchID:**	120498
Date Analyzed:	5/5/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-120498 1605103-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	50.7	0.50	50	-	101	75-125
Cadmium	ND	50.0	0.25	50	-	100	75-125
Chromium	ND	50.6	0.50	50	-	101	75-125
Lead	ND	51.5	0.50	50	-	103	75-125
Nickel	ND	50.5	0.50	50	-	101	75-125
Zinc	ND	513	5.0	500	-	103	75-125
Surrogate Recovery							
Terbium	488	518		500	98	104	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	54.7	55.4	50	4.153	101	103	75-125	1.34	20
Cadmium	51.2	50.6	50	ND	102	101	75-125	1.24	20
Chromium	94.9	106	50	55.59	79	101	75-125	11.2	20
Lead	57.4	60.6	50	8.706	97	104	75-125	5.37	20
Nickel	99.6	117	50	59.43	80	115	75-125	16.0	20
Zinc	561	568	500	54.70	101	103	75-125	1.19	20
Surrogate Recovery									
Terbium	538	554	500		108	111	70-130	2.98	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	4.65	4.153	12.0	
Cadmium	ND<1.2	ND		
Chromium	61.0	55.59	9.73	10
Lead	8.29	8.706	4.78	
Nickel	62.4	59.43	5.00	10
Zinc	46.3	54.70	15.4	

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

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605103
Date Prepared:	5/3/16	**BatchID:**	120448
Date Analyzed:	5/3/16 - 5/4/16	**Extraction Method:**	SW3550B
Instrument:	GC11A, GC2B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-120448 1605066-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	41.8	1.0	40	-	105	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	22.4	25.6		25	90	102	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		2000	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	

NELAP 4033ORELAP

QA/QC Officer

McCampbell Analytical, Inc.
1534 Willow Pass Rd
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(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1605103 **ClientCode: TWRF**

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

Report to:
Peter Cusack
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party:
PO:
ProjectNo: 731641601; 23rd and Valdez

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

Requested TAT: 1 day;

Date Received: **05/04/2016**
Date Logged: **05/04/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1605103-001	SP-40-8	Soil	5/3/2016	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	METALSMS_TTLC_S	3	TPH(DMO)_S	4	
5		6		7		8	
9		10		11		12	

Prepared by: Briana Cutino

The following SampID: 001A contains testgroup.

Comments:

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641601; 23rd and Valdez
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1605103
Date Logged: 5/4/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1605103-001A	SP-40-8	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	5/3/2016	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

Langan

Treadwell&Rollo
Environmental and Geotechnical Consultant

1605103

CHAIN OF CUSTODY RECORD

RUSH

Page 1 of 1

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
☐ 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
☐ 777 Campus Commons Rd., Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7412

Site Name: 23rd and Valdez
Job Number: 731641601
Project Manager\Contact: Peter Cusack
Samplers: Rob Milano
Recorder (Signature Required):

Turnaround Time: 24 Hour

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPHg, d, me	Analysis Requested: LUFT 5 Metals	Analysis Requested: Total arsenic	Silica gel clean-up	Hold	Remarks
SP-40-8	5-3-16			X						X		X	X	X			

Relinquished by: (Signature)	Date 5-4-16	Time 1130	Received by: (Signature)	Date 5-4-16	Time 1130
Relinquished by: (Signature)	Date 5-4-16	Time 1540	Received by: (Signature)	Date 5/4/16	Time 1540
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

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

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

White Copy - Original Yellow Copy - Laboratory Pink Copy - Field COC Number: 005799

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Sample Receipt Checklist

Client Name:	**Treadwell & Rollo**	Date and Time Received:	**5/4/2016 15:40**
Project Name:	**731641601; 23rd and Valdez**	Date Logged:	**5/4/2016**
WorkOrder №:	**1605103** Matrix: Soil	Received by:	Briana Cutino
Carrier:	Bernie Cummins (MAI Courier)	Logged by:	Briana Cutino

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No ☐	
Sample/Temp Blank temperature	Temp: 2°C			NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No ☐	NA ☑
Samples Received on Ice?	Yes	☑	No ☐	
	(Ice Type: WET ICE)			

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No ☐	NA ☑

Comments:

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1605242

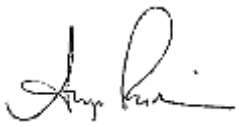
Report Created for: Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

Project Contact: Peter Cusack
Project P.O.:
Project Name: 731641601; 23rd and Valdez

Project Received: 05/06/2016

Analytical Report reviewed & approved for release on 05/09/2016 by:



Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641601; 23rd and Valdez
WorkOrder: 1605242

Glossary Abbreviation

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

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validated the prep batch.

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605242
Date Received:	5/6/16 15:50	**Extraction Method:**	SW5030B
Date Prepared:	5/6/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-47-7'	**1605242-001A**	**Soil**	**05/05/2016 11:20**	**GC19**	**120588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	05/07/2016 16:28
MTBE	---	0.050	1	05/07/2016 16:28
Benzene	---	0.0050	1	05/07/2016 16:28
Toluene	---	0.0050	1	05/07/2016 16:28
Ethylbenzene	---	0.0050	1	05/07/2016 16:28
Xylenes	---	0.015	1	05/07/2016 16:28

Surrogates	REC (%)	Limits	
2-Fluorotoluene	91	70-130	05/07/2016 16:28

Analyst(s): HD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-54-7'	**1605242-002A**	**Soil**	**05/05/2016 11:30**	**GC19**	**120588**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	05/07/2016 16:58
MTBE	---	0.050	1	05/07/2016 16:58
Benzene	---	0.0050	1	05/07/2016 16:58
Toluene	---	0.0050	1	05/07/2016 16:58
Ethylbenzene	---	0.0050	1	05/07/2016 16:58
Xylenes	---	0.015	1	05/07/2016 16:58

Surrogates	REC (%)	Limits	
2-Fluorotoluene	91	70-130	05/07/2016 16:58

Analyst(s): HD

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605242
Date Received:	5/6/16 15:50	**Extraction Method:**	SW3050B
Date Prepared:	5/6/16	**Analytical Method:**	SW6020
Project:	731641601; 23rd and Valdez	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-47-7'	**1605242-001A**	**Soil**	**05/05/2016 11:20**	**ICP-MS2**	**120595**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.1**	0.50	1	05/09/2016 10:19
Cadmium	ND	0.25	1	05/09/2016 10:19
Chromium	**50**	0.50	1	05/09/2016 10:19
Lead	**4.8**	0.50	1	05/09/2016 10:19
Nickel	**52**	0.50	1	05/09/2016 10:19
Zinc	**32**	5.0	1	05/09/2016 10:19

Surrogates	REC (%)	Limits	
Terbium	110	70-130	05/09/2016 10:19

Analyst(s): DB

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-54-7'	**1605242-002A**	**Soil**	**05/05/2016 11:30**	**ICP-MS2**	**120595**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.6**	0.50	1	05/09/2016 10:25
Cadmium	ND	0.25	1	05/09/2016 10:25
Chromium	**60**	0.50	1	05/09/2016 10:25
Lead	**7.3**	0.50	1	05/09/2016 10:25
Nickel	**65**	0.50	1	05/09/2016 10:25
Zinc	**39**	5.0	1	05/09/2016 10:25

Surrogates	REC (%)	Limits	
Terbium	110	70-130	05/09/2016 10:25

Analyst(s): DB

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605242
Date Received:	5/6/16 15:50	**Extraction Method:**	SW3550B
Date Prepared:	5/6/16	**Analytical Method:**	SW8015B
Project:	731641601; 23rd and Valdez	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-47-7'	1605242-001A	Soil	05/05/2016 11:20	GC6A	120612

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/07/2016 09:22
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/07/2016 09:22

Surrogates	REC (%)	Limits	
C9	88	70-130	05/07/2016 09:22

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-54-7'	1605242-002A	Soil	05/05/2016 11:30	GC6B	120612

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/07/2016 02:14
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/07/2016 02:14

Surrogates	REC (%)	Limits	
C9	88	70-130	05/07/2016 02:14

Analyst(s): TK

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605242
Date Prepared:	5/5/16	**BatchID:**	120588
Date Analyzed:	5/7/16 - 5/9/16	**Extraction Method:**	SW5030B
Instrument:	GC3, GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-120588 1605197-023AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.630	0.40	0.60	-	105	70-130
MTBE	ND	0.0932	0.050	0.10	-	93	70-130
Benzene	ND	0.0998	0.0050	0.10	-	100	70-130
Toluene	ND	0.101	0.0050	0.10	-	101	70-130
Ethylbenzene	ND	0.101	0.0050	0.10	-	101	70-130
Xylenes	ND	0.302	0.015	0.30	-	101	70-130
Surrogate Recovery							
2-Fluorotoluene	0.116	0.0960		0.10	116	96	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.566	0.585	0.60	ND	94	97	70-130	3.35	20
MTBE	0.0930	0.0906	0.10	ND	93	91	70-130	2.63	20
Benzene	0.0936	0.0948	0.10	ND	94	95	70-130	1.36	20
Toluene	0.0963	0.0979	0.10	ND	96	98	70-130	1.72	20
Ethylbenzene	0.0944	0.0978	0.10	ND	94	98	70-130	3.54	20
Xylenes	0.280	0.293	0.30	ND	93	98	70-130	4.63	20
Surrogate Recovery									
2-Fluorotoluene	0.0930	0.0927	0.10		93	93	70-130	0	20

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605242
Date Prepared:	5/5/16	**BatchID:**	120595
Date Analyzed:	5/9/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-120595

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	54.8	0.50	50	-	110	75-125
Cadmium	ND	50.6	0.25	50	-	101	75-125
Chromium	ND	50.1	0.50	50	-	100	75-125
Lead	ND	53.5	0.50	50	-	107	75-125
Nickel	ND	52.8	0.50	50	-	106	75-125
Zinc	ND	529	5.0	500	-	106	75-125
Surrogate Recovery							
Terbium	539	538		500	108	108	70-130

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605242
Date Prepared:	5/6/16	**BatchID:**	120612
Date Analyzed:	5/7/16	**Extraction Method:**	SW3550B
Instrument:	GC9b	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641601; 23rd and Valdez	**Sample ID:**	MB/LCS-120612 1605221-012AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	45.2	1.0	40	-	113	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	23.2	23.2		25	93	93	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	54.6	59.5	40	ND	136,F1	149,F1	70-130	8.70	30
Surrogate Recovery									
C9	23.2	23.3	25		93	93	70-130	0	30

NELAP 4033ORELAP

QA/QC Officer

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1605242 **ClientCode: TWRF**

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

Report to:
Peter Cusack
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party:
PO:
ProjectNo: 731641601; 23rd and Valdez

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

Requested TAT: 1 day;

Date Received: 05/06/2016
Date Logged: 05/06/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1605242-001	SP-47-7'	Soil	5/5/2016 11:20	☐	A	A	A									
1605242-002	SP-54-7'	Soil	5/5/2016 11:30	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	METALSMS_TTLC_S	3	TPH(DMO)_S	4	
5		6		7		8	
9		10		11		12	

Prepared by: Valerie Riva

The following SampIDs: 001A, 002A contain testgroup.

Comments:

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641601; 23rd and Valdez
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1605242
Date Logged: 5/6/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1605242-001A	SP-47-7'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	5/5/2016 11:20	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1605242-002A	SP-54-7'	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	5/5/2016 11:30	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1605242

007954

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

RUSH

Page 1 of 1

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
☐ 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
☐ 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413
☐ 50 Airport Parkway, Suite 175, San Jose, CA 95110 Ph: 408.437.7708/Fax: 408.437.7709

Site Name: 23rd and Valdez
Job Number: 731641601
Project Manager\Contact: Peter Cusack
Samplers: Bob Miyamoto
Recorder (Signature Required):

Turnaround Time 24 HR

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Air	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Analysis Requested: TPH-g,d,mo	LUFTS & As	Silica gel clean-up	Hold	Remarks
SP-47-7'	5-5-16	1120		X							X	X	X			
~~SP-47~~	~~5-5-16~~															
~~SP-54-7~~																
SP-54-7	5-5-16	1130		X							X	X	X			

ICE/t° 4.1/3.4
GOOD CONDITION
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS
PRESERVED IN LAB

PRESERVATION: VOAS | O&G | METALS | OTHER

Relinquished by: (Signature)	Date 5-6-16	Time 1020	Received by: (Signature)	Date 5-6-16	Time 1020
Relinquished by: (Signature)	Date 5-6-16	Time 1550	Received by: (Signature)	Date 5-6-16	Time 15:50
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

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

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

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

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Sample Receipt Checklist

Client Name:	**Treadwell & Rollo**	Date and Time Received:	**5/6/2016 15:50**
Project Name:	**731641601; 23rd and Valdez**	Date Logged:	**5/6/2016**
WorkOrder №:	**1605242** Matrix: Soil	Received by:	Bernie Cummins
Carrier:	Courier	Logged by:	Valerie Riva

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No ☐	
Sample/Temp Blank temperature	Temp: 4.1°C			NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No ☐	NA ☑
Samples Received on Ice?	Yes	☑	No ☐	
	(Ice Type: WET ICE)			

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No ☐	NA ☑

Comments:

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Analytical Report

WorkOrder: 1605967

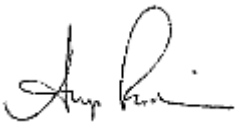
Report Created for: Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

Project Contact: Peter Cusack
Project P.O.:
Project Name: 731641602; Altan & Waverly

Project Received: 05/23/2016

Analytical Report reviewed & approved for release on 05/24/2016 by:



Angela Rydelius,
Laboratory Manager

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

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641602; Altan & Waverly
WorkOrder: 1605967

Glossary Abbreviation

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

Analytical Qualifiers

H	samples were analyzed out of holding time

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641602; Altan & Waverly
WorkOrder: 1605967

Quality Control Qualifiers

F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Received:	5/23/16 16:40	**Extraction Method:**	SW5030B
Date Prepared:	5/23/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641602; Altan & Waverly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-61	**1605967-001A**	**Soil**	**05/06/2016 13:23**	**GC19**	**121314**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
TPH(g)	ND	H	1.0	1	05/24/2016 01:03
MTBE	---		0.050	1	05/24/2016 01:03
Benzene	---		0.0050	1	05/24/2016 01:03
Toluene	---		0.0050	1	05/24/2016 01:03
Ethylbenzene	---		0.0050	1	05/24/2016 01:03
Xylenes	---		0.015	1	05/24/2016 01:03

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorotoluene	102	H	70-130	05/24/2016 01:03

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-68	**1605967-002A**	**Soil**	**05/09/2016 12:32**	**GC3**	**121314**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
TPH(g)	ND	H	1.0	1	05/24/2016 07:19
MTBE	---		0.050	1	05/24/2016 07:19
Benzene	---		0.0050	1	05/24/2016 07:19
Toluene	---		0.0050	1	05/24/2016 07:19
Ethylbenzene	---		0.0050	1	05/24/2016 07:19
Xylenes	---		0.015	1	05/24/2016 07:19

Surrogates	REC (%)	Qualifiers	Limits	
2-Fluorotoluene	99	H	70-130	05/24/2016 07:19

Analyst(s): LT

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Received:	5/23/16 16:40	**Extraction Method:**	SW5030B
Date Prepared:	5/23/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641602; Altan & Waverly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-75	**1605967-003A**	**Soil**	**05/10/2016 12:18**	**GC19**	**121314**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	05/24/2016 08:30
MTBE	---	0.050	1	05/24/2016 08:30
Benzene	---	0.0050	1	05/24/2016 08:30
Toluene	---	0.0050	1	05/24/2016 08:30
Ethylbenzene	---	0.0050	1	05/24/2016 08:30
Xylenes	---	0.015	1	05/24/2016 08:30

Surrogates	REC (%)	Limits	
2-Fluorotoluene	101	70-130	05/24/2016 08:30

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-83	**1605967-004A**	**Soil**	**05/12/2016 13:00**	**GC19**	**121314**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	05/24/2016 03:03
MTBE	---	0.050	1	05/24/2016 03:03
Benzene	---	0.0050	1	05/24/2016 03:03
Toluene	---	0.0050	1	05/24/2016 03:03
Ethylbenzene	---	0.0050	1	05/24/2016 03:03
Xylenes	---	0.015	1	05/24/2016 03:03

Surrogates	REC (%)	Limits	
2-Fluorotoluene	99	70-130	05/24/2016 03:03

Analyst(s): LT

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Received:	5/23/16 16:40	**Extraction Method:**	SW3050B
Date Prepared:	5/23/16	**Analytical Method:**	SW6020
Project:	731641602; Altan & Waverly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-61	**1605967-001A**	**Soil**	**05/06/2016 13:23**	**ICP-MS1**	**121347**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.0**	0.50	1	05/24/2016 12:25
Cadmium	ND	0.25	1	05/24/2016 12:25
Chromium	**44**	0.50	1	05/24/2016 12:25
Lead	**3.5**	0.50	1	05/24/2016 12:25
Nickel	**52**	0.50	1	05/24/2016 12:25
Zinc	**41**	5.0	1	05/24/2016 12:25

Surrogates	REC (%)	Limits	
Terbium	105	70-130	05/24/2016 12:25

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-68	**1605967-002A**	**Soil**	**05/09/2016 12:32**	**ICP-MS1**	**121347**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.6**	0.50	1	05/24/2016 12:31
Cadmium	ND	0.25	1	05/24/2016 12:31
Chromium	**45**	0.50	1	05/24/2016 12:31
Lead	**5.3**	0.50	1	05/24/2016 12:31
Nickel	**70**	0.50	1	05/24/2016 12:31
Zinc	**40**	5.0	1	05/24/2016 12:31

Surrogates	REC (%)	Limits	
Terbium	103	70-130	05/24/2016 12:31

Analyst(s): BBO

(Cont.)

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Received:	5/23/16 16:40	**Extraction Method:**	SW3050B
Date Prepared:	5/23/16	**Analytical Method:**	SW6020
Project:	731641602; Altan & Waverly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-75	**1605967-003A**	**Soil**	**05/10/2016 12:18**	**ICP-MS2**	**121360**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.8**	0.50	1	05/24/2016 14:51
Cadmium	ND	0.25	1	05/24/2016 14:51
Chromium	**32**	0.50	1	05/24/2016 14:51
Lead	**14**	0.50	1	05/24/2016 14:51
Nickel	**51**	0.50	1	05/24/2016 14:51
Zinc	**36**	5.0	1	05/24/2016 14:51

Surrogates	REC (%)	Limits	
Terbium	99	70-130	05/24/2016 14:51

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-83	**1605967-004A**	**Soil**	**05/12/2016 13:00**	**ICP-MS1**	**121360**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.9**	0.50	1	05/24/2016 12:37
Cadmium	ND	0.25	1	05/24/2016 12:37
Chromium	**40**	0.50	1	05/24/2016 12:37
Lead	**4.9**	0.50	1	05/24/2016 12:37
Nickel	**60**	0.50	1	05/24/2016 12:37
Zinc	**32**	5.0	1	05/24/2016 12:37

Surrogates	REC (%)	Limits	
Terbium	106	70-130	05/24/2016 12:37

Analyst(s): BBO

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Received:	5/23/16 16:40	**Extraction Method:**	SW3550B
Date Prepared:	5/23/16	**Analytical Method:**	SW8015B
Project:	731641602; Altan & Waverly	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-61	**1605967-001A**	**Soil**	**05/06/2016 13:23**	**GC11A**	**121338**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	H	1.0	1	05/24/2016 03:08
TPH-Motor Oil (C18-C36)	ND	H	5.0	1	05/24/2016 03:08

Surrogates	REC (%)	Qualifiers	Limits	
C9	89	H	70-130	05/24/2016 03:08

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-68	**1605967-002A**	**Soil**	**05/09/2016 12:32**	**GC11B**	**121338**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/24/2016 03:08
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/24/2016 03:08

Surrogates	REC (%)	Limits	
C9	90	70-130	05/24/2016 03:08

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-75	**1605967-003A**	**Soil**	**05/10/2016 12:18**	**GC11A**	**121338**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/24/2016 04:25
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/24/2016 04:25

Surrogates	REC (%)	Limits	
C9	89	70-130	05/24/2016 04:25

Analyst(s): TD

(Cont.)

NELAP 4033ORELAP

Angela Rydelius, Lab Manager

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Received:	5/23/16 16:40	**Extraction Method:**	SW3550B
Date Prepared:	5/23/16	**Analytical Method:**	SW8015B
Project:	731641602; Altan & Waverly	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-83	**1605967-004A**	**Soil**	**05/12/2016 13:00**	**GC39B**	**121338**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	05/24/2016 10:52
TPH-Motor Oil (C18-C36)	ND	5.0	1	05/24/2016 10:52

Surrogates	REC (%)	Limits	
C9	91	70-130	05/24/2016 10:52

Analyst(s): TD

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Prepared:	5/23/16	**BatchID:**	121314
Date Analyzed:	5/23/16	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Altan & Waverly	**Sample ID:**	MB/LCS-121314

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.622	0.40	0.60	-	104	70-130
MTBE	ND	0.103	0.050	0.10	-	103	70-130
Benzene	ND	0.100	0.0050	0.10	-	100	70-130
Toluene	ND	0.104	0.0050	0.10	-	104	70-130
Ethylbenzene	ND	0.104	0.0050	0.10	-	104	70-130
Xylenes	ND	0.317	0.015	0.30	-	106	70-130
Surrogate Recovery							
2-Fluorotoluene	0.108	0.0994		0.10	108	99	70-130

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Prepared:	5/23/16	**BatchID:**	121347
Date Analyzed:	5/24/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Altan & Waverly	**Sample ID:**	MB/LCS-121347

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	48.9	0.50	50	-	98	75-125
Cadmium	ND	46.5	0.25	50	-	93	75-125
Chromium	ND	47.3	0.50	50	-	95	75-125
Lead	ND	51.8	0.50	50	-	104	75-125
Nickel	ND	47.3	0.50	50	-	95	75-125
Zinc	ND	487	5.0	500	-	97	75-125
Surrogate Recovery							
Terbium	467	503		500	93	101	70-130

(Cont.)

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Prepared:	5/23/16	**BatchID:**	121360
Date Analyzed:	5/24/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Altan & Waverly	**Sample ID:**	MB/LCS-121360 1605967-003AMS/MSD 1605967-003APDS

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	49.7	0.50	50	-	99	75-125
Cadmium	ND	48.0	0.25	50	-	96	75-125
Chromium	ND	48.5	0.50	50	-	97	75-125
Lead	ND	53.8	0.50	50	-	108	75-125
Nickel	ND	49.7	0.50	50	-	99	75-125
Zinc	ND	503	5.0	500	-	101	75-125
Surrogate Recovery							
Terbium	477	505		500	95	101	70-130

(Cont.)

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Prepared:	5/23/16	**BatchID:**	121360
Date Analyzed:	5/24/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Altan & Waverly	**Sample ID:**	MB/LCS-121360 1605967-003AMS/MSD 1605967-003APDS

QC Summary Report for Metals

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	49.8	53.2	50	3.784	92	99	75-125	6.64	20
Cadmium	44.8	48.7	50	ND	89	97	75-125	8.30	20
Chromium	84.3	82.6	50	32.32	104	100	75-125	2.05	20
Lead	63.2	84.4	50	13.82	99	141,F10	75-125	28.6,F10	20
Nickel	98.7	97.8	50	51.13	95	93	75-125	0.905	20
Zinc	503	554	500	36.40	93	104	75-125	9.78	20
Surrogate Recovery									
Terbium	507	519	500		101	104	70-130	2.28	20

Analyte	PDS Result	SPK Val	SPKRef Val	PDS %REC	PDS Limits
Lead	68.7	50	13.82	110	75-125

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	3.62	3.784	4.33	-
Cadmium	ND<1.2	ND	-	-
Chromium	31.9	32.32	1.30	20
Lead	13.4	13.82	3.04	20
Nickel	51.4	51.13	0.528	20
Zinc	37.3	36.40	2.47	-

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

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1605967
Date Prepared:	5/23/16	**BatchID:**	121338
Date Analyzed:	5/23/16	**Extraction Method:**	SW3550B
Instrument:	GC11B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Altan & Waverly	**Sample ID:**	MB/LCS-121338 1605954-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	45.5	1.0	40	-	114	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	22.4	21.8		25	90	87	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	48.2	49.6	40	ND	120	124	70-130	3.04	30
Surrogate Recovery									
C9	23.5	23.5	25		94	94	70-130	0	30

NELAP 4033ORELAP

QA/QC Officer

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1605967 **ClientCode: TWRF**

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

Report to:
Peter Cusack
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party:
PO:
ProjectNo: 731641602; Altan & Waverly

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

Requested TAT: 1 day;

Date Received: 05/23/2016
Date Logged: 05/23/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1605967-001	SP-61	Soil	5/6/2016 13:23	☐	A	A	A									
1605967-002	SP-68	Soil	5/9/2016 12:32	☐	A	A	A									
1605967-003	SP-75	Soil	5/10/2016 12:18	☐	A	A	A									
1605967-004	SP-83	Soil	5/12/2016 13:00	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	METALSMS_TTLC_S	3	TPH(DMO)_S	4	
5		6		7		8	
9		10		11		12	

Prepared by: Alexandra Iniguez

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup.

Comments:

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641602; Altan & Waverly
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1605967
Date Logged: 5/23/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1605967-001A	SP-61	Soil	SW6020 (LUFT)	1	Stainless Steel tube 2"x3"	☐	5/6/2016 13:23	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
			SW6020 (Arsenic)			☐		1 day		☐	
1605967-002A	SP-68	Soil	SW6020 (LUFT)	1	Stainless Steel tube 2"x3"	☐	5/9/2016 12:32	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
			SW6020 (Arsenic)			☐		1 day		☐	
1605967-003A	SP-75	Soil	SW6020 (LUFT)	1	Stainless Steel tube 2"x3"	☐	5/10/2016 12:18	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
			SW6020 (Arsenic)			☐		1 day		☐	
1605967-004A	SP-83	Soil	SW6020 (LUFT)	1	Stainless Steel tube 2"x3"	☐	5/12/2016 13:00	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
			SW6020 (Arsenic)			☐		1 day		☐	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

160059670

RUSH

Treadwell&Rollo
Environmental and Geotechnical Consultant

CHAIN OF CUSTODY RECORD

X 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
☐ 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
☐ 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413
☐ 50 Airport Parkway, Suite 175, San Jose, CA 95110 Ph: 408.437.7708/Fax: 408.437.7709

Site Name: Alta Waverly
Job Number: 731641602
Project Manager\Contact: Peter Cusack
Samplers: GTK Ahmad Nabulsi
Recorder (Signature Required):

Turnaround Time: 24

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Air	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice		Analysis Requested: TPH-g/BTEX/MTBE	LUFT 5	Arsenic	Silica gel clean-up	Hold	Remarks
SB-61	5/6/16	1323		X							1		6	X	X			
SB-69	5/9/16	1232		X							1		X	X	X			
SB-75	5/10/16	1218		X							1		X	X	X			
SB-83	5/12/16	1300		X							1		X	X	X			

Relinquished by: (Signature)	Date 5-23-16	Time 1130	Received by: (Signature)	Date 5-23-16 Time 1130
Relinquished by: (Signature)	Date 5-23-16	Time 1640	Received by: (Signature)	Date 5/23/16 Time 16:40
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date Time

Sent to Laboratory (Name): MC Campbell Analytical
Laboratory Comments/Notes:

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

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

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Sample Receipt Checklist

Client Name:	**Treadwell & Rollo**	Date and Time Received:	**5/23/2016 16:40**
Project Name:	**731641602; Altan & Waverly**	Date Logged:	**5/23/2016**
WorkOrder №:	**1605967** Matrix: Soil	Received by:	Alexandra Iniguez
Carrier:	Bernie Cummins (MAI Courier)	Logged by:	Alexandra Iniguez

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 5.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments: Method SW8021B/8015Bm (G/MBTEX) was received passed its 14-day holding time. Method SW8015B (Diesel & Motor Oil) was received passed its 14-day holding time.

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1606011

Report Created for: Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

Project Contact: Peter Cusack
Project P.O.:
Project Name: 731641602; Alta and Warrly

Project Received: 06/01/2016

Analytical Report reviewed & approved for release on 06/03/2016 by:

Angela Rydelius,
Laboratory Manager

McCampbell Analytical, Inc.
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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641602; Alta and Warrly
WorkOrder: 1606011

Glossary Abbreviation

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

Quality Control Qualifiers

F10	MS/MSD outside control limits. Physical or chemical interferences exist due to sample matrix.

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Received:	6/1/16 14:50	**Extraction Method:**	SW5030B
Date Prepared:	6/1/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641602; Alta and Warrly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-89-5	**1606011-001A**	**Soil**	**05/19/2016 16:25**	**GC19**	**121671**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/02/2016 10:07
MTBE	---	0.050	1	06/02/2016 10:07
Benzene	---	0.0050	1	06/02/2016 10:07
Toluene	---	0.0050	1	06/02/2016 10:07
Ethylbenzene	---	0.0050	1	06/02/2016 10:07
Xylenes	---	0.015	1	06/02/2016 10:07

Surrogates	REC (%)	Limits	
2-Fluorotoluene	94	70-130	06/02/2016 10:07

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-96-4.5	**1606011-002A**	**Soil**	**05/24/2016 12:03**	**GC19**	**121671**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/02/2016 10:39
MTBE	---	0.050	1	06/02/2016 10:39
Benzene	---	0.0050	1	06/02/2016 10:39
Toluene	---	0.0050	1	06/02/2016 10:39
Ethylbenzene	---	0.0050	1	06/02/2016 10:39
Xylenes	---	0.015	1	06/02/2016 10:39

Surrogates	REC (%)	Limits	
2-Fluorotoluene	93	70-130	06/02/2016 10:39

Analyst(s): LT

(Cont.)

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Received:	6/1/16 14:50	**Extraction Method:**	SW5030B
Date Prepared:	6/1/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641602; Alta and Warrly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-102-3	**1606011-003A**	**Soil**	**05/24/2016 15:14**	**GC19**	**121671**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/02/2016 11:10
MTBE	---	0.050	1	06/02/2016 11:10
Benzene	---	0.0050	1	06/02/2016 11:10
Toluene	---	0.0050	1	06/02/2016 11:10
Ethylbenzene	---	0.0050	1	06/02/2016 11:10
Xylenes	---	0.015	1	06/02/2016 11:10

Surrogates	REC (%)	Limits	
2-Fluorotoluene	91	70-130	06/02/2016 11:10

Analyst(s): LT

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-108-4	**1606011-004A**	**Soil**	**05/27/2016 07:58**	**GC19**	**121671**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/02/2016 11:42
MTBE	---	0.050	1	06/02/2016 11:42
Benzene	---	0.0050	1	06/02/2016 11:42
Toluene	---	0.0050	1	06/02/2016 11:42
Ethylbenzene	---	0.0050	1	06/02/2016 11:42
Xylenes	---	0.015	1	06/02/2016 11:42

Surrogates	REC (%)	Limits	
2-Fluorotoluene	89	70-130	06/02/2016 11:42

Analyst(s): LT

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Received:	6/1/16 14:50	**Extraction Method:**	SW3050B
Date Prepared:	6/1/16-6/2/16	**Analytical Method:**	SW6020
Project:	731641602; Alta and Warrly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-89-5	1606011-001A	Soil	05/19/2016 16:25	ICP-MS3	121702

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.0**	0.50	1	06/02/2016 09:57
Cadmium	ND	0.25	1	06/02/2016 09:57
Chromium	**44**	0.50	1	06/02/2016 09:57
Lead	**14**	0.50	1	06/02/2016 09:57
Nickel	**51**	0.50	1	06/02/2016 09:57
Zinc	**34**	5.0	1	06/02/2016 09:57

Surrogates	REC (%)	Limits	
Terbium	118	70-130	06/02/2016 09:57

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-96-4.5	1606011-002A	Soil	05/24/2016 12:03	ICP-MS3	121702

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**3.8**	0.50	1	06/02/2016 10:03
Cadmium	ND	0.25	1	06/02/2016 10:03
Chromium	**47**	0.50	1	06/02/2016 10:03
Lead	**4.8**	0.50	1	06/02/2016 10:03
Nickel	**67**	0.50	1	06/02/2016 10:03
Zinc	**30**	5.0	1	06/02/2016 10:03

Surrogates	REC (%)	Limits	
Terbium	113	70-130	06/02/2016 10:03

Analyst(s): BBO

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Received:	6/1/16 14:50	**Extraction Method:**	SW3050B
Date Prepared:	6/1/16-6/2/16	**Analytical Method:**	SW6020
Project:	731641602; Alta and Warrly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-102-3	1606011-003A	Soil	05/24/2016 15:14	ICP-MS3	121702

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.3**	0.50	1	06/02/2016 10:09
Cadmium	ND	0.25	1	06/02/2016 10:09
Chromium	**41**	0.50	1	06/02/2016 10:09
Lead	**5.5**	0.50	1	06/02/2016 10:09
Nickel	**43**	0.50	1	06/02/2016 10:09
Zinc	**25**	5.0	1	06/02/2016 10:09

Surrogates	REC (%)	Limits	
Terbium	109	70-130	06/02/2016 10:09

Analyst(s): BBO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-108-4	1606011-004A	Soil	05/27/2016 07:58	ICP-MS2	121733

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**2.9**	0.50	1	06/03/2016 14:13
Cadmium	ND	0.25	1	06/03/2016 14:13
Chromium	**29**	0.50	1	06/03/2016 14:13
Lead	**7.5**	0.50	1	06/03/2016 14:13
Nickel	**23**	0.50	1	06/03/2016 14:13
Zinc	**25**	5.0	1	06/03/2016 14:13

Surrogates	REC (%)	Limits	
Terbium	107	70-130	06/03/2016 14:13

Analyst(s): DVH

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Received:	6/1/16 14:50	**Extraction Method:**	SW3550B
Date Prepared:	6/1/16	**Analytical Method:**	SW8015B
Project:	731641602; Alta and Warrly	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-89-5	1606011-001A	Soil	05/19/2016 16:25	GC11B	121666

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/01/2016 21:55
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/01/2016 21:55

Surrogates	REC (%)	Limits	
C9	93	70-130	06/01/2016 21:55

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-96-4.5	1606011-002A	Soil	05/24/2016 12:03	GC11B	121666

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/01/2016 23:12
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/01/2016 23:12

Surrogates	REC (%)	Limits	
C9	91	70-130	06/01/2016 23:12

Analyst(s): TD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-102-3	1606011-003A	Soil	05/24/2016 15:14	GC11B	121701

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/02/2016 01:48
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/02/2016 01:48

Surrogates	REC (%)	Limits	
C9	93	70-130	06/02/2016 01:48

Analyst(s): TD

(Cont.)

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Angela Rydelius, Lab Manager

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Received:	6/1/16 14:50	**Extraction Method:**	SW3550B
Date Prepared:	6/1/16	**Analytical Method:**	SW8015B
Project:	731641602; Alta and Warrly	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-108-4	**1606011-004A**	**Soil**	**05/27/2016 07:58**	**GC11B**	**121701**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/02/2016 00:30
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/02/2016 00:30

Surrogates	REC (%)	Limits	
C9	90	70-130	06/02/2016 00:30

Analyst(s): TD

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Prepared:	5/31/16	**BatchID:**	121671
Date Analyzed:	6/1/16	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Alta and Warrly	**Sample ID:**	MB/LCS-121671 1605D50-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.637	0.40	0.60	-	106	70-130
MTBE	ND	0.112	0.050	0.10	-	113	70-130
Benzene	ND	0.111	0.0050	0.10	-	111	70-130
Toluene	ND	0.114	0.0050	0.10	-	114	70-130
Ethylbenzene	ND	0.113	0.0050	0.10	-	113	70-130
Xylenes	ND	0.344	0.015	0.30	-	114	70-130
Surrogate Recovery							
2-Fluorotoluene	0.107	0.108		0.10	107	108	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.602	0.624	0.60	ND	100	104	70-130	3.59	20
MTBE	0.102	0.0930	0.10	ND	102	93	70-130	9.25	20
Benzene	0.0987	0.0946	0.10	ND	99	95	70-130	4.26	20
Toluene	0.100	0.0981	0.10	ND	99	97	70-130	2.29	20
Ethylbenzene	0.0974	0.0985	0.10	ND	97	99	70-130	1.17	20
Xylenes	0.296	0.303	0.30	ND	99	101	70-130	2.17	20
Surrogate Recovery									
2-Fluorotoluene	0.0943	0.0925	0.10		94	93	70-130	1.86	20

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Prepared:	6/1/16	**BatchID:**	121702
Date Analyzed:	6/2/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS3	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Alta and Warrly	**Sample ID:**	MB/LCS-121702 1606012-001AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	53.8	0.50	50	-	108	75-125
Cadmium	ND	53.6	0.25	50	-	107	75-125
Chromium	ND	54.7	0.50	50	-	109	75-125
Lead	ND	53.0	0.50	50	-	106	75-125
Nickel	ND	52.9	0.50	50	-	106	75-125
Zinc	ND	534	5.0	500	-	107	75-125
Surrogate Recovery							
Terbium	559	553		500	112	111	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Arsenic	54.8	57.4	50	4.359	101	106	75-125	4.76	20
Cadmium	52.4	52.3	50	ND	105	104	75-125	0.210	20
Chromium	101	135	50	60.59	80	149,F10	75-125	29.3,F10	20
Lead	68.5	74.8	50	15.09	107	120	75-125	8.82	20
Nickel	113	146	50	73.63	79	145,F10	75-125	25.3,F10	20
Zinc	552	575	500	45.03	101	106	75-125	4.08	20
Surrogate Recovery									
Terbium	511	558	500		102	112	70-130	8.72	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Arsenic	4.04	4.359	7.32	-
Cadmium	ND<1.2	ND	-	-
Chromium	64.8	60.59	6.95	20
Lead	14.1	15.09	6.56	20
Nickel	74.9	73.63	1.72	20
Zinc	47.3	45.03	5.04	-

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

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Prepared:	5/31/16	**BatchID:**	121666
Date Analyzed:	5/31/16	**Extraction Method:**	SW3550B
Instrument:	GC11A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Alta and Warrly	**Sample ID:**	MB/LCS-121666 1605A80-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	41.7	1.0	40	-	104	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	22.4	22.8		25	90	91	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	NR	NR		73	NR	NR	-	NR	
Surrogate Recovery									
C9	NR	NR			NR	NR	-	NR	

(Cont.)

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QA/QC Officer

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606011
Date Prepared:	6/1/16	**BatchID:**	121701
Date Analyzed:	6/1/16	**Extraction Method:**	SW3550B
Instrument:	GC11A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Alta and Warrly	**Sample ID:**	MB/LCS-121701 1606012-001AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	42.0	1.0	40	-	105	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	22.6	22.9		25	90	92	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	44.1	43.9	40	2.512	104	103	70-130	0.536	30
Surrogate Recovery									
C9	22.8	22.9	25		91	91	70-130	0	30

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QA/QC Officer

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1606011 **ClientCode: TWRF**

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

Report to:
Peter Cusack
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-9040 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party:
PO:
ProjectNo: 731641602; Alta and Warrly

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

Requested TAT: 1 day;

Date Received: **06/01/2016**
Date Logged: **06/01/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1606011-001	SP-89-5	Soil	5/19/2016 16:25	☐	A	A	A									
1606011-002	SP-96-4.5	Soil	5/24/2016 12:03	☐	A	A	A									
1606011-003	SP-102-3	Soil	5/24/2016 15:14	☐	A	A	A									
1606011-004	SP-108-4	Soil	5/27/2016 7:58	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	METALSMS_TTLC_S	3	TPH(DMO)_S	4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup.

Comments:

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641602; Alta and Warrly
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1606011
Date Logged: 6/1/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1606011-001A	SP-89-5	Soil	Multi-Range TPH(g,d,mo)	1	Stainless Steel tube 2"x3"	☐	5/19/2016 16:25	1 day		☐	
			SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>			☐		1 day		☐	
1606011-002A	SP-96-4.5	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	5/24/2016 12:03	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606011-003A	SP-102-3	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	5/24/2016 15:14	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606011-004A	SP-108-4	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	5/27/2016 7:58	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

1606011

RUSH

LANGAN TREADWELL ROLLO

CHAIN OF CUSTODY RECORD

- [X] 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
- [ ] 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
- [ ] 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413

Site Name: Alta and Wamly
Job Number: 731641602
Project Manager\Contact: Peter Cusack
Samplers: Gtk
Recorder (Signature Required):

Turnaround Time: 24

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Matrix: Water	Matrix: Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-g,d,mo	LUFT 5	Arsenic	Silica gel clean-up	Hold	Remarks
SP-89-5	5/19/16	1625		X						1		✓	✓	✓			
SP-96-4.5	5/24/16	1203		X						1		✓	✓	✓			
SP-102-3	5/24/16	1514		X						1		✓	✓	✓			
SP-108-4	5/27/16	0758		X						1		✓	✓	✓			

ICE /t ° 6.1
GOOD CONDITION ____ APPROPRIATE
HEAD SPACE/ABSENT ____ CONTAINERS ____
DECHLORINATED IN LAB ____ PRESERVED IN LAB ____

PRESERVATION	VOAS	O&G	METALS	OTHER

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
D. Evans	6-1-16	0935		6-1-16	0935
	6-1-16	1450		6/1/16	1450

Relinquished by: (Signature) | Date | Time | Received by Lab: (Signature) | Date | Time

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

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

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

COC Number: 15414

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Sample Receipt Checklist

Client Name:	**Treadwell & Rollo**	Date and Time Received:	**6/1/2016 14:50**
Project Name:	**731641602; Alta and Warrly**	Date Logged:	**6/1/2016**
WorkOrder №:	**1606011** Matrix: Soil	Received by:	Agustina Venegas
Carrier:	Bernie Cummins (MAI Courier)	Logged by:	Agustina Venegas

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	
Sample/Temp Blank temperature	Temp: 6.1°C				NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
Samples Received on Ice?	Yes	☑	No	☐	
	(Ice Type: WET ICE)				

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes	☐	No	☐	NA ☑

Comments:

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Analytical Report

WorkOrder: 1606671 **Amended:** 06/16/2016

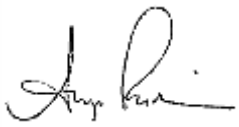
Report Created for: Treadwell & Rollo

555 Montgomery St., Suite 1300
San Francisco, CA 94111

Project Contact: Peter Cusack
Project P.O.:
Project Name: 731641602; Alta and Warrly

Project Received: 06/15/2016

Analytical Report reviewed & approved for release on 06/16/2016 by:



Angela Rydelius,
Laboratory Manager

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641602; Alta and Warrly
WorkOrder: 1606671

Glossary Abbreviation

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

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Glossary of Terms & Qualifier Definitions

Client: Treadwell & Rollo
Project: 731641602; Alta and Warrly
WorkOrder: 1606671

Analytical Qualifiers

e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Received:	6/15/16 15:45	**Extraction Method:**	SW5030B
Date Prepared:	6/15/16-6/16/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641602; Alta and Warrly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-116-3	**1606671-001A**	**Soil**	**06/02/2016 13:17**	**GC7**	**122299**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/16/2016 03:30
MTBE	---	0.050	1	06/16/2016 03:30
Benzene	---	0.0050	1	06/16/2016 03:30
Toluene	---	0.0050	1	06/16/2016 03:30
Ethylbenzene	---	0.0050	1	06/16/2016 03:30
Xylenes	---	0.015	1	06/16/2016 03:30

Surrogates	REC (%)	Limits	
2-Fluorotoluene	100	70-130	06/16/2016 03:30

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-123-2.5	**1606671-002A**	**Soil**	**06/02/2016 11:51**	**GC7**	**122340**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/16/2016 02:02
MTBE	---	0.050	1	06/16/2016 02:02
Benzene	---	0.0050	1	06/16/2016 02:02
Toluene	---	0.0050	1	06/16/2016 02:02
Ethylbenzene	---	0.0050	1	06/16/2016 02:02
Xylenes	---	0.015	1	06/16/2016 02:02

Surrogates	REC (%)	Limits	
2-Fluorotoluene	102	70-130	06/16/2016 02:02

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Received:	6/15/16 15:45	**Extraction Method:**	SW5030B
Date Prepared:	6/15/16-6/16/16	**Analytical Method:**	SW8021B/8015Bm
Project:	731641602; Alta and Warrly	**Unit:**	mg/Kg

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

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-130-1.5	**1606671-003A**	**Soil**	**06/02/2016 12:54**	**GC7**	**122361**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	1.0	1	06/16/2016 13:40
MTBE	---	0.050	1	06/16/2016 13:40
Benzene	---	0.0050	1	06/16/2016 13:40
Toluene	---	0.0050	1	06/16/2016 13:40
Ethylbenzene	---	0.0050	1	06/16/2016 13:40
Xylenes	---	0.015	1	06/16/2016 13:40

Surrogates	REC (%)	Limits	
2-Fluorotoluene	95	70-130	06/16/2016 13:40

Analyst(s): IA

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Received:	6/15/16 15:45	**Extraction Method:**	SW3050B
Date Prepared:	6/15/16	**Analytical Method:**	SW6020
Project:	731641602; Alta and Warrly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-116-3	**1606671-001A**	**Soil**	**06/02/2016 13:17**	**ICP-MS3**	**122341**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**4.7**	0.50	1	06/16/2016 12:54
Cadmium	ND	0.25	1	06/16/2016 12:54
Chromium	**37**	0.50	1	06/16/2016 12:54
Lead	**11**	0.50	1	06/16/2016 12:54
Nickel	**20**	0.50	1	06/16/2016 12:54
Zinc	**27**	5.0	1	06/16/2016 12:54

Surrogates	REC (%)	Limits	
Terbium	113	70-130	06/16/2016 12:54

Analyst(s): DVH

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-123-2.5	**1606671-002A**	**Soil**	**06/02/2016 11:51**	**ICP-MS3**	**122341**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**4.6**	0.50	1	06/16/2016 13:01
Cadmium	**1.1**	0.25	1	06/16/2016 13:01
Chromium	**35**	0.50	1	06/16/2016 13:01
Lead	**230**	0.50	1	06/16/2016 13:01
Nickel	**32**	0.50	1	06/16/2016 13:01
Zinc	**490**	5.0	1	06/16/2016 13:01

Surrogates	REC (%)	Limits	
Terbium	111	70-130	06/16/2016 13:01

Analyst(s): DVH

(Cont.)

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Received:	6/15/16 15:45	**Extraction Method:**	SW3050B
Date Prepared:	6/15/16	**Analytical Method:**	SW6020
Project:	731641602; Alta and Warrly	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-130-1.5	**1606671-003A**	**Soil**	**06/02/2016 12:54**	**ICP-MS3**	**122341**

Analytes	Result	RL	DF	Date Analyzed
Arsenic	**4.0**	0.50	1	06/16/2016 14:58
Cadmium	ND	0.25	1	06/16/2016 14:58
Chromium	**37**	0.50	1	06/16/2016 14:58
Lead	**74**	0.50	1	06/16/2016 14:58
Nickel	**34**	0.50	1	06/16/2016 14:58
Zinc	**120**	5.0	1	06/16/2016 14:58

Surrogates	REC (%)	Limits	
Terbium	114	70-130	06/16/2016 14:58

Analyst(s): DVH

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Analytical Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Received:	6/15/16 15:45	**Extraction Method:**	SW3550B
Date Prepared:	6/15/16	**Analytical Method:**	SW8015B
Project:	731641602; Alta and Warrly	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-116-3	1606671-001A	Soil	06/02/2016 13:17	GC11A	122309

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/16/2016 06:23
TPH-Motor Oil (C18-C36)	ND	5.0	1	06/16/2016 06:23

Surrogates	REC (%)	Limits	
C9	92	70-130	06/16/2016 06:23

Analyst(s): TK

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-123-2.5	1606671-002A	Soil	06/02/2016 11:51	GC11A	122309

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	06/16/2016 03:47
TPH-Motor Oil (C18-C36)	**16**	5.0	1	06/16/2016 03:47

Surrogates	REC (%)	Limits	
C9	92	70-130	06/16/2016 03:47

Analyst(s): TK Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SP-130-1.5	1606671-003A	Soil	06/02/2016 12:54	GC11A	122309

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**9.4**	5.0	5	06/16/2016 09:37
TPH-Motor Oil (C18-C36)	**260**	25	5	06/16/2016 09:37

Surrogates	REC (%)	Limits	
C9	89	70-130	06/16/2016 09:37

Analyst(s): TK Analytical Comments: e7,e2

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Prepared:	6/14/16	**BatchID:**	122299
Date Analyzed:	6/15/16 - 6/16/16	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Alta and Warrly	**Sample ID:**	MB/LCS-122299

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.625	0.40	0.60	-	104	70-130
MTBE	ND	0.0737	0.050	0.10	-	74	70-130
Benzene	ND	0.103	0.0050	0.10	-	103	70-130
Toluene	ND	0.114	0.0050	0.10	-	114	70-130
Ethylbenzene	ND	0.125	0.0050	0.10	-	125	70-130
Xylenes	ND	0.379	0.015	0.30	-	126	70-130
Surrogate Recovery							
2-Fluorotoluene	0.108	0.116		0.10	108	116	70-130

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Prepared:	6/15/16	**BatchID:**	122340
Date Analyzed:	6/16/16	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Alta and Warrly	**Sample ID:**	MB/LCS-122340 1606671-002AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.592	0.40	0.60	-	99	70-130
MTBE	ND	0.0706	0.050	0.10	-	71	70-130
Benzene	ND	0.0899	0.0050	0.10	-	90	70-130
Toluene	ND	0.0866	0.0050	0.10	-	87	70-130
Ethylbenzene	ND	0.105	0.0050	0.10	-	105	70-130
Xylenes	ND	0.331	0.015	0.30	-	110	70-130
Surrogate Recovery							
2-Fluorotoluene	0.112	0.111		0.10	112	111	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.538	0.548	0.60	ND	90	91	70-130	1.83	20
MTBE	0.0726	0.0759	0.10	ND	73	76	70-130	4.44	20
Benzene	0.0777	0.0798	0.10	ND	78	80	70-130	2.69	20
Toluene	0.0748	0.0752	0.10	ND	72	73	70-130	0.592	20
Ethylbenzene	0.0904	0.0922	0.10	ND	90	92	70-130	1.95	20
Xylenes	0.286	0.288	0.30	ND	92	93	70-130	0.699	20
Surrogate Recovery									
2-Fluorotoluene	0.0952	0.0982	0.10		95	98	70-130	3.09	20

(Cont.)

NELAP 4033ORELAP

QA/QC Officer

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Prepared:	6/15/16	**BatchID:**	122361
Date Analyzed:	6/16/16	**Extraction Method:**	SW5030B
Instrument:	GC19	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Alta and Warrly	**Sample ID:**	MB/LCS-122361

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.612	0.40	0.60	-	102	70-130
MTBE	ND	0.0818	0.050	0.10	-	82	70-130
Benzene	ND	0.107	0.0050	0.10	-	107	70-130
Toluene	ND	0.110	0.0050	0.10	-	110	70-130
Ethylbenzene	ND	0.113	0.0050	0.10	-	113	70-130
Xylenes	ND	0.341	0.015	0.30	-	114	70-130
Surrogate Recovery							
2-Fluorotoluene	0.110	0.110		0.10	110	110	70-130

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Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Prepared:	6/15/16	**BatchID:**	122341
Date Analyzed:	6/16/16	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Alta and Warrly	**Sample ID:**	MB/LCS-122341

QC Summary Report for Metals

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Arsenic	ND	53.1	0.50	50	-	106	75-125
Cadmium	ND	50.8	0.25	50	-	102	75-125
Chromium	ND	51.4	0.50	50	-	103	75-125
Lead	ND	51.6	0.50	50	-	103	75-125
Nickel	ND	52.6	0.50	50	-	105	75-125
Zinc	ND	524	5.0	500	-	105	75-125
Surrogate Recovery							
Terbium	543	564		500	109	113	70-130

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

Quality Control Report

Client:	Treadwell & Rollo	**WorkOrder:**	1606671
Date Prepared:	6/14/16	**BatchID:**	122309
Date Analyzed:	6/15/16	**Extraction Method:**	SW3550B
Instrument:	GC39B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	731641602; Alta and Warrly	**Sample ID:**	MB/LCS-122309 1606630-006AMS/MSD

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	39.6	1.0	40	-	99	70-130
TPH-Motor Oil (C18-C36)	ND	-	5.0	-	-	-	-
Surrogate Recovery							
C9	23.3	23.3		25	93	93	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	46.5	46.5	40	ND	116	116	70-130	0	30
Surrogate Recovery									
C9	23.5	23.4	25		94	94	70-130	0	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1606671 **ClientCode: TWRF**

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

Report to:
Peter Cusack
Treadwell & Rollo
555 Montgomery St., Suite 1300
San Francisco, CA 94111
(415) 955-5244 FAX: (415) 955-9041

Email: pcusack@langan.com
cc/3rd Party:
PO:
ProjectNo: 731641602; Alta and Warrly

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

Requested TAT: 1 day;

Date Received: **06/15/2016**
Date Logged: **06/15/2016**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1606671-001	SP-116-3	Soil	6/2/2016 13:17	☐	A	A	A									
1606671-002	SP-123-2.5	Soil	6/2/2016 11:51	☐	A	A	A									
1606671-003	SP-130-1.5	Soil	6/2/2016 12:54	☐	A	A	A									

Test Legend:

1	G-MBTEX_S	2	METALSMS_TTLC_S	3	TPH(DMO)_S	4	
5		6		7		8	
9		10		11		12	

Prepared by: Jena Alfaro

The following SampIDs: 001A, 002A, 003A contain testgroup.

Comments:

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

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WORK ORDER SUMMARY

Client Name: TREADWELL & ROLLO
Project: 731641602; Alta and Warrly
Comments:

QC Level: LEVEL 2
Client Contact: Peter Cusack
Contact's Email: pcusack@langan.com

Work Order: 1606671
Date Logged: 6/15/2016

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

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1606671-001A	SP-116-3	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	6/2/2016 13:17	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606671-002A	SP-123-2.5	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	6/2/2016 11:51	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	
1606671-003A	SP-130-1.5	Soil	SW6020 (Metals) <Arsenic, Cadmium, Chromium, Lead, Nickel, Zinc>	1	Stainless Steel tube 2"x3"	☐	6/2/2016 12:54	1 day		☐	
			Multi-Range TPH(g,d,mo)			☐		1 day		☐	

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

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

LANGAN TREADWELL ROLLO

RUSH 1606671

CHAIN OF CUSTODY RECORD

Page 1 of 1

☒ 555 Montgomery Street, Suite 1300, San Francisco, CA 94111 Ph: 415.955.9040/Fax: 415.955.9041
☐ 501 14th Street, Third Floor, Oakland CA 94612 Ph: 510.874.4500/Fax: 510.874.4507
☐ 777 Campus Commons Road, Suite 200, Sacramento, CA 95825 Ph: 916.565.7412/Fax: 916.565.7413

Site Name: Alta and Waverly
Job Number: 731641602
Project Manager\Contact: Peter Cusack
Samplers: Gtk
Recorder (Signature Required):

Turnaround Time: 24

Field Sample Identification No.	Date	Time	Lab Sample No.	Matrix: Soil	Water	Other	No. Containers & Preservative: HCL	H_2SO_4	HNO_3	Ice	Other	Analysis Requested: TPH-g,d,mo	LUFT 5	Arsenic	Silica gel clean-up	Hold	Remarks
SP-116-3	6/2/16	1317		X						1		✓	✓	✓			
SP-123-2.5	6/2/16	1151		X						1		✓	✓	✓			
SP-130-1.5	6/2/16	1254		X						1		✓	✓	✓			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
D. Evans	6-15-16	1135		6-15-16	1135
	6-17-16	1545		6/15/16	1545
Relinquished by: (Signature)	Date	Time	Received by Lab: (Signature)	Date	Time

Sent to Laboratory (Name): McCampbell
Laboratory Comments/Notes: 3.8°

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

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

COC Number: 15416

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Sample Receipt Checklist

Client Name:	**Treadwell & Rollo**	Date and Time Received:	**6/15/2016 15:45**
Project Name:	**731641602; Alta and Warrly**	Date Logged:	**6/15/2016**
WorkOrder №:	**1606671** Matrix: Soil	Received by:	Jena Alfaro
Carrier:	Bernie Cummins (MAI Courier)	Logged by:	Jena Alfaro

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Sample/Temp Blank temperature	Temp: 5.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes ☐	No ☐	NA ☑

Comments: