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Alameda County Department of Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: Former Chevron Service Station 90955 1200 Park Street Alameda, CA ACEH Site Cleanup Case #RO003230

I have read and acknowledge the content, recommendations and/or conclusions contained in the attached *Well Installation and Site Assessment Report* submitted on my behalf to SWRCB's GeoTracker website.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1) and the regulating implementation entitled Appendix A pertaining thereto.

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge

Sincerely,

Camp Macheol

Carryl MacLeod Project Manager

Attachment: Well Installation and Site Assessment Report

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Chevron Environmental Management Company

WELL INSTALATION REPORT

Former Chevron Service Station No. 90955

1200 Park Street

Alameda, California

ACDEH Case RO0003230

May 31, 2018

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WELL INSTALLATION REPORT

Former Chevron Service Station 206145 1200 Park Street Alameda, California ACDEH Case RO0003230

Prepared for:

Chevron Environmental Management Company

Prepared by: Arcadis U.S., Inc. 2300 Clayton Road Suite 400 Concord California 94520 Tel 925 274 1100

Our Ref.:

B0090955.GW18

Date:

May 31, 2018

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CONTENTS

FIC	GURE	S		ii
Ac	ronyn	ns and <i>i</i>	Abbreviationsi	ii
1	Intro	oductior	۱	4
	1.1	Site B	ackground	4
	1.2	Scope	of Work	4
2	Mor	itoring	well installation	4
	2.1	Pre-fie	ald Activities	4
		2.1.1	Site Specific Health and safety Plan	5
		2.1.2	Permitting	5
	2.2	Field A	Activities	5
		2.2.1	Underground Utility Locating	5
		2.2.2	Well Installation Activities	5
		2.2.3	Borehole Activities	6
		2.2.4	Waste generation and removal	6
	2.3	Soil Sa	ampling and Analytical Results	6
		2.3.1	Soil Lithology	7
		2.3.2	Soil Sample Results	7
3	Ass	essmer	t of Site Conditions Relative to Low-Threat Closure Policy	8
	3.1	Evalua	ation of Low-Threat Closure General Criteria	8
		3.1.1	Criteria A – The unauthorized release is located within the service area of a public water system	
		3.1.2	Criteria B – The unauthorized release consists only of petroleum	9
		3.1.3	Criteria C – The unauthorized ("primary") release from the UST system has been stopped	
		3.1.4	Criteria D – Free product has been removed to the maximum extent practicable	9
		3.1.5	Criteria E – A conceptual site model that assesses the nature, extent, and mobility of the release has been developed	
		3.1.6	Criteria F – Secondary source has been removed to the extent practicable	9
		3.1.7	Criteria G – Soil and groundwater have been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15	0

3.1		sance as defined by Water Code Section 13	
32 Ev		at Closure: Media-Specific Criteria	
3.2			
		ability	
		Groundwater-Specific Criteria	
3.2	2 Petroleum Vapo	or Intrusion to Indoor Air	11
3.2	.3 Direct Contact a	and Outdoor Air Exposure	11
Conclus	ons		12
Referer	ces		13

TABLES

4 5

Table 1	Ι.	Monitorina	Well	Construction	Details
T UDIC I		morniornig	v v OII	0011011 0011011	Dotano

- Table 2. Monitoring Well Soil Analytical Results
- Table 3. Hand Auger Soil Analytical Results

FIGURES

Figure 1. SiteFigure 2. Site FeaturesFigure 3. Soil Analytical Results March 2018Figure 4. Groundwater Monitoring Results April 2, 2018

APPENDICES

- Appendix A Borehole logs
- Appendix B Permits
- Appendix C Well Completion Reports
- Appendix D Laboratory Analytical reports
- Appendix E Data Validation Report
- Appendix F Hisotrical Data from Previous Site Investigation

ACRONYMS AND ABBREVIATIONS

ACDEH	Alameda County Department of Environmental Health
BETX	Benzene, toluene, ethylbenzene, xylenes
ESL	Environmental screening levels
SWRCB	State Water Resources Control Board
LTC	Low Threat Closure
OSHA	Occupational Health and Safety Administration
HASP	Health and Safety Plan
USA	Underground Service Alert
EPA	Environmental Protection Agency
TPH-d	Diesel range total petroleum hydrocarbons
TPH-g	Gasoline range total petroleum hydrocarbons
TPH-m	Motor oil range total petroleum hydrocarbons
PAH	Poly-aromatic hydrocarbons
BTEX	benzene, toluene, ethylbenzene, xylene
SFRWQ ESL	San Francisco Bay Area Regional Water Quality Control Board Environmental Screening Levels

1 INTRODUCTION

On behalf of Chevron Environmental Management Company (CEMC), Arcadis U.S., Inc. (Arcadis) has prepared this *Well Installation and Site Assessment Report* for the former Chevron service station No. 90955 located at 1200 Park Street, Alameda, California (the 'Site'; Figure 1). The purpose of the investigation was to address data gaps identified by the Alameda County Department of Environmental Health (ACDEH) December 2016 (ACDEH 2016a) Directive Letter for further site investigation to fill data gaps identified to close the Site under the State Water Resources Control Board (SWRCB) Low Threat Closure (LTC) Policy. The assessment activities for this work were proposed to ACDEH in the *Work Plan for Additional Site Assessment (Work Plan)* dated February 3, 2017 (GHD 2017a) and *Work Plan Addendum* (Addendum) dated May 10, 2017 (GHD 2017b). ACDEH approved the *Work Plan* and *Addendum*, provided that the proposed technical comments in Directive Letter dated July 7, 2017 were incorporated during proposed work (ACDEH 2017a).

1.1 Site Background

The Site is a former Chevron retail gas station (#90955) located at 1200 Park Street; on the corner of Park Street and San Jose Avenue in Alameda, California. The site was leased by Standard Oil Company of California from 1933-1978. In 1952, Standard removed three 550-gallon underground service tanks (USTs) and installed three 5000-gallon USTs at the site. In 1967, the 550-gallon used-oil UST was relocated.

In 1978, Chevron USA terminated the leasing agreement with the property owner and removed the 5,000gallon USTs. In 1988 the 490-gallon used-oil UST was removed. The site was in continuous use as an Auto Service Garage from 1978 to 2017. The site is currently unoccupied. The adjacent property (2407 San Jose Ave) has been operated as an Auto Service Garage since 1983.

1.2 Scope of Work

On March 20 and 21, 2018, Arcadis personnel supervised Cascade Drilling, L.P. (Cascade) of West Sacramento, California, to advance soil borings (HA-1 and HA-2) and the installation of four monitoring wells: MW-1, MW-2, MW-3 and MW-4. Soil samples were collected at predetermined depths as specified in the *Addendum* (GHD 2017b). The wells were developed by Gettler-Ryan on March 23, 2018 and sampled for the first quarter 2018 groundwater monitoring event on April 2, 2018.

Monitoring well and borehole locations are presented on Figure 2; well construction details are summarized in Table 1 and 2, and boring logs are in Appendix A.

2 MONITORING WELL INSTALLATION

2.1 **Pre-field Activities**

Tasks described below were completed prior to commencing field activities associated with the above referenced scope of work.

2.1.1 Site Specific Health and safety Plan

As required by the Occupational Health and Safety Administration (OSHA) Standard "Hazardous Waste Operations and Emergency Response" guidelines (29 Code of Federal Regulations Section 1910.120), and by California Occupational Health and Safety Administration (Cal-OSHA) "Hazardous Waste Operations and Emergency Response" guidelines (California Code of Regulations Title 8, Section 5192), Arcadis prepared a health and safety plan (HASP) prior to commencing fieldwork. Field staff and contractors reviewed the HASP before beginning field operations at the site.

2.1.2 Permitting

Boring and monitoring well installation permits were obtained from the Alameda County Public Works Agency, Water Resources Division. All well installation activities were performed in compliance with the original work plan and permit.

2.2 Field Activities

Tasks below were completed according to the scope of work. Field logs and permits are in Appendix B.

2.2.1 Underground Utility Locating

On March 8, 2018 the private utility locator Ground Penetrating Radar Systems marked all known and suspected underground utilities. In addition, Underground Service Alert (USA) was notified at least 72 hours before commencing invasive operations (hand augering and drilling). None of the borehole locations were found to be within a 10-foot radius of any utilities.

2.2.2 Well Installation Activities

Tasks described below outline field procedures for installation of monitoring wells MW-1, MW-2, MW-3, and MW-4.

Borehole Clearance

The asphalt and cement surfaces were cored with a 10-inch diameter "cookie cutter" bit. In accordance with CEMC requirements, boring locations were cleared to 8 feet bgs via hand-auger. No utilities were encountered within these vertical 8 feet.

Drilling

Drilling and installation activities were conducted by Cascade Drilling, LP of Richmond, California, a C-57 licensed driller, under the supervisor of an Arcadis Professional Geologist. Soil borings were advanced using hollow-stem auger drilling methods for MW-1 through MW-4. Boring locations HA-1 and HA-2 were advanced using a hand auger.

The soil from the boreholes were continuously logged by a geologist in accordance with the Unified Soil Classification System and screened with a photo ionization detector (PID) during well installation activities. The PID field screening results were recorded on the field boring logs in units of parts per million. The field determination for soil sampling was based on the predetermined intervals and additional

samples were collected in the areas of the highest PID readings greater than the background concentration.

The monitoring wells were completed with a 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) riser and a 0.020-inch slot screen, which was set from 5 to 15 feet bgs. The annular space was backfilled with sand from the total depth to 1 foot above the screen, followed by 1 foot of hydrated bentonite chips. The wells were sealed with neat cement grout to the surface. A 12-inch-diameter traffic-rated well box was installed at grade.

Well Development & Completion

In accordance with the work plan, all monitoring wells were developed by Gettler-Ryan Inc. on March 23, 2018. The wells were surged with a bailer and approximately 10 casing volumes of water were purged. A stack pump was used to purge water. Parameters for pH, conductivity, and temperature were collected until stabilization.

Groundwater samples were collected by Gettler-Ryan in a separate sampling event on April 2, 2018. The Groundwater Sampling Report was submitted under separate cover on May 15, 2018.

Well completion reports were submitted to California Department of Water Resources on May 17, 2018 and included in Appendix C

Well Surveying

On April 4, 2018, Muir surveying of Oakdale, California surveyed geographical coordinates and the top of casing elevation for all site monitoring. Survey data is included in Appendix B.

2.2.3 Borehole Activities

Boreholes HA-1 and HA-2 were advanced at the location of the former UST pit. Boreholes were advanced via hand auger to 10 ft bgs under the supervisor of an Arcadis Professional Geologist. Soil was characterized continuously, and soil samples were collected at 3 ft and 8 ft bgs. Once sampling was complete, boreholes were completed to ground surface with grout. Boring logs are included in Appendix A.

2.2.4 Waste generation and removal

Investigation-derived waste soil cuttings and decontamination water generated during drilling operations was containerized in Department of Transportation (DOT)-approved 55-gallon drums and temporarily stored on site pending characterization. CEMC is managing the waste profile and is arranging for a certified waste contractor to transport and dispose of the waste.

2.3 Soil Sampling and Analytical Results

Soil sample intervals were pre-determined based on the previous investigation and site history. Proposed sample intervals for the monitoring wells (MW-1 through MW-4) included 3, 5, 10 and 15 feet bgs. Proposed sample intervals for the hand auger locations (HA-1 and HA-2) included 3 and 8 feet bgs. The proposed locations were collected. Additional samples were collected from MW-1 where soil exhibited significant indications of petroleum hydrocarbon impacts based on PID readings.

Samples were analyzed by Eurofins Lancaster Laboratories with a standard turnaround time of 10 days:

- Total petroleum hydrocarbons as motor oil range organics (TPH-m) by EPA Method 8015.
- Total petroleum hydrocarbons as diesel range organics (TPH-d) with and without silica cleanup by EPA Method 8015.
- Total Petroleum hydrocarbons as gasoline range organics (TPH-g) by EPA Method 8015.
- Benzene, toluene, ethylbenzene, total xylenes (BTEX) and naphthalene by EPA Method 8260B.

TerraCore© kits were used to collect soil samples for the EPA Method 8260B analyses.

In addition, soil samples collected from HA soil borings were only analyzed for polycyclic aromatic hydrocarbons

• Poly-aromatic hydrocarbons (PAH) by EPA Method 8270.

2.3.1 Soil Lithology

Generally, the soils encountered in the borings are consistent with previous investigations at the site. Soils consisted of fine-to-medium grained sand. Gravel, likely non-native fill, was noted between 1 to 3 feet thick from the surface to 3 feet bgs. First encountered water was observed at the monitoring well (MW-1 through MW-4) at approximately 8.5 feet bgs. First encountered water was observed at the hand auger locations (HA-1 and HA-2) at 9.5 feet bgs.

2.3.2 Soil Sample Results

As requested in the December 2016 Directive Letter soil concentrations of the primary constituents of potential concern (COPC) were compared to residential, commercial and utility worker soil screening levels presented in Table 1 - *Concentrations of Petroleum Constituents in Soil That Will Have No Significant Risk of Adversely Affecting Human Health* of the SWRCB LTC Policy (SWRCB 2012). COPCs detected in soil samples were also compared to San Francisco Bay Area Regional Water Quality Control Board Environmental Screening Levels (ESL) for commercial industrial direct exposure for human health.

Analytical results for benzene, ethylbenzene, and naphthalene were below the LTC Policy Criteria and the ESLs. Results are presented in Tables 2 and 3 and Figure 3; laboratory analytical reports are located in Appendix D, and the Data Validation Report is included in Appendix E.

<u>MW-1</u>: Samples were collected at 1 ft bgs, 5 ft bgs, 10 ft bgs, and 15 ft bgs. Sample results did not exceed SWRCB LTC Policy Criteria or the ESLs.

<u>MW-2:</u> Samples were collected at 3 ft bgs, 5 ft bgs, 8 ft bgs, 10 ft bgs, 12 ft bgs, and 15 ft bgs. Sample results did not exceed SWRCB LTC Policy Criteria or the ESLs.

<u>MW-3</u>: Samples were collected at 3 ft bgs, 5 ft bgs, 10 ft bgs, and 15 ft bgs. Sample results did not exceed SWRCB LTC Policy Criteria or the ESLs.

<u>MW-4:</u> Samples were collected at 3 ft bgs, 5 ft bgs, 10 ft bgs, and 15 ft bgs. Sample results did not exceed SWRCB LTC Policy Criteria or the ESLs.

<u>HA-1</u>: Samples were collected at 3 ft bgs, and 8 ft bgs. Sample results did not exceed SWRCB LTC Policy Criteria or the ESLs.

<u>HA-2</u>: Samples were collected at 3 ft bgs, and 8 ft bgs. Sample results did not exceed SWRCB LTC Policy Criteria or the ESLs.

All monitoring well soil samples were analyzed for TPH-g, TPH-d, TPH-m, BTEX, and Naphthalene.

For the data set, TPH-d and TPH-m analyses had to be reanalyzed outside of holding times. This means that those diesel and motor oil results, and only those results, are qualified as approximate.

The main COPC at the Site is gasoline; there is no record of diesel ever having been dispensed. In addition to internal data validation of the soil and groundwater (as presented in the First Quarter 2018 Groundwater Monitoring and Sampling Report [Arcadis 2018]), EPA 8015 method chromatograms for groundwater samples were reviewed by Arcadis' national chemical forensics expert. The chromatograms indicate a pattern consistent with weathered gasoline. Therefore, the qualified TPH-d and TPH-m results are of minimal importance. All TPH-g, BTEX and Naphthalene (primary risk drivers) results to date have been validated as accurate and fully representative.

3 ASSESSMENT OF SITE CONDITIONS RELATIVE TO LOW-THREAT CLOSURE POLICY

The Low-Threat Closure Policy (SWRCB 2012a) outlines eight General Criteria to assess whether sites are candidates for low-threat case closure and three categories of Media-Specific Criteria (groundwater, petroleum vapor intrusion to indoor air, and direct contact and outdoor air exposure) that also must be met. This section evaluates current site conditions against the General and Media-Specific Criteria. Based on this evaluation, Arcadis concludes that the site meets the General and Media-Specific Criteria requirements for low-threat case closure.

3.1 Evaluation of Low-Threat Closure General Criteria

This section evaluates the site conditions related to each of the eight General Criteria.

3.1.1 Criteria A – The unauthorized release is located within the service area of a public water system

The site lies within the East Bay Plain Subbasin of the Santa Clara Valley Groundwater Basin. The site is located within the service area of the City of Alameda public water system. Water used within the City of Oakland public water system, which includes drinking water at the site, is imported water supplied by the EBMUD. Approximately 90 percent of the EBMUD's water supply comes from the Mokelumne River watershed in the Sierra Nevada Mountains (EBMUD 2013). A well search on GeoTracker GAMA (Groundwater Ambient Monitoring and Assessment Program) for active and inactive wells did not identify any water supply wells located within a 1000 foot radius of the site. The closest water supply well is located approximately 1450 feet from the site.

3.1.2 Criteria B – The unauthorized release consists only of petroleum

In April 2016, a Phase II investigation was completed at the site (Moore Twining [MTA]2016). A total of 12 boreholes (B-1 through B-12) were advanced in suspected area of former USTs. Soil samples were collected between 10 and 11.5 feet bgs, and grab groundwater samples were collected from boreholes B-1, B-5, B-6, B-10, and B-12. Soil sample results indicated petroleum hydrocarbon impacts at locations B-6, B-10, and B-12. Soil and groundwater impacts were detected in the former UST, dispenser island, and product piping locations (MTA 2016). Historical data is included in Appendix F. The COPCs identified were TPH-g, TPH-m, BTEX, and naphthalene, which are indicative of a petroleum release. Based on tank records diesel was not dispensed at the site and is not considered a COPC. There have been no non-petroleum impacts or releases documented at the site.

3.1.3 Criteria C – The unauthorized ("primary") release from the UST system has been stopped

As noted in the previous reports, in 1952, three 550-gallon USTs were removed from the site and replaced by three 5,000-gallon USTs. As noted in the Site Background section, in 1967, the 550-gallon used-oil UST was relocated. Also, in 1978 the lease was terminated and the three 5,000-gallon USTs. In 1988 the 490-gallon used-oil UST was removed. No other USTs remain on site. The unauthorized releases ceased with the removal of USTs.

3.1.4 Criteria D – Free product has been removed to the maximum extent practicable

Free product was not observed during the April 2016 investigation, the 2018 monitoring well installation or the 2018 first quarterly groundwater sampling event. Over the next four quarters, any free product will be measured and documented during sampling events. Based on observations to date, none is anticipated.

3.1.5 Criteria E – A conceptual site model that assesses the nature, extent, and mobility of the release has been developed

Between this Report and the Phase-II investigation, all information and data necessary for a site conceptual model have been collected.

3.1.6 Criteria F – Secondary source has been removed to the extent practicable

The site is exempt from this criterion, as no secondary source was identified during the Phase 1, Phase II, or the current investigation. Historical remedial efforts included UST removal and soil removal. Soil concentrations reported during the March 2018 (and 2016) investigation were all below method detection limits (MDLs) or environmental screening levels (ESLs), and measurable LNAPL or sheen have not been observed in groundwater or soil which indicate that secondary source has been removed to the extent practicable. Additional secondary source removal is not warranted.

3.1.7 Criteria G – Soil and groundwater have been tested for MTBE and results reported in accordance with Health and Safety Code Section 25296.15

During the 2016 Phase-II Investigation, soil samples collected from B-6 through B-12 and all groundwater samples were analyzed for MTBE using USEPA Method 8260B. All results were below laboratory detection limits (MTA 2016).

Due to the service station history (Terraphase 2017) and the results of the Phase-II investigation (MTA 2016), MTBE is not considered a constituent of potential concern for the site.

3.1.8 Criteria H – Nuisance as defined by Water Code Section 13050 does not exist at the site

No nuisance exists at the site, as defined by Water Code Section 13050. Site conditions and the treatment and disposal of site wastes are not injurious to health, are not indecent or offensive to the senses, and do not obstruct free use of property or interfere with the comfortable enjoyment of life or property. Site conditions and the treatment and disposal of site wastes do not affect an entire community or neighborhood or any considerable number of persons. Site impacts are restricted to the subsurface and are present in a limited area that does not adversely affect the community at large.

3.2 Evaluation of Low-Threat Closure: Media-Specific Criteria

This section evaluates the site conditions related to each of the three categories of Media-Specific Criteria.

3.2.1 Groundwater

Groundwater at the site does not currently pose a risk to existing or anticipated future beneficial uses of groundwater and meets the groundwater-specific criteria outlined in the Low-Threat Closure Policy (SWRCB 2012a). The Low-Threat Closure Policy (SWRCB 2012a) states that "the contaminant plume that exceeds water quality objectives must be stable or decreasing in areal extent and meet all of the additional characteristics of one of the five classes of sites."

3.2.1.1 Plume Stability

According to the Technical Justification for Groundwater Media Specific Criteria (SWRCB 2012b), plume stability can be demonstrated in two ways:

- "[R]outinely observed non-detect values for groundwater parameters in down-gradient wells"
- "[S]table or decreasing concentration levels in down-gradient wells."

The furthest down-gradient well is MW-1. Groundwater collected from MW-1 in the first routine monitoring contained only a small amount of TPH-g and TPH-m. MW-1 was non-detect for BTEX and naphthalene. These results and stability of parameters in all four wells will be assessed during the next four quarters.

3.2.1.2 Additional Groundwater-Specific Criteria

As described in the Low-Threat Closure Policy (SWRCB 2012a), a site can meet the Groundwater -Specific Criteria through one of five main classes. This site falls into *Class 1* as described below.

1a. The contaminant plume that exceeds water quality objectives is less than 100 feet in length

To determine the classification of groundwater impacts, the length of the plume exceeding WQOs for each of the current site COPCs was measured using the most recent data included on Figure 4. Plume lengths were measured from the furthest upgradient monitoring well (MW-4) to the furthest down gradient monitoring well (MW-1):

- There are approximately 68 feet between MW-1 and MW-4.
- TPH-d was detected at MW-4, which is not a COPC since diesel was never dispensed at the site, exceeds the ESL at 300 mg/kg but as noted above the chromatograms indicate a pattern consistent with weathered gasoline.
- No other analytes exceeded the ESL at MW-4.
- No ESL exceedances were detected at MW-1

1b. There is no free product

As discussed in section 3.1.4. no free product has been observed onsite.

1c. The nearest existing water supply well or surface water body is greater than 250 feet from the defined plume boundary

GeoTracker GAMA search results indicated no water supply wells or surface water bodies within 250 feet of the plume boundary.

3.2.2 Petroleum Vapor Intrusion to Indoor Air

BTEX are not detected at MW-1, the well furthest down-gradient from the former USTs and nearest the current building (Figure 4). Depth to water ranges from 7.63 to 8.87 feet bgs. There is the presence of a bioattenuation zone and therefore, this criterion is met, and the site is exempt.

3.2.3 Direct Contact and Outdoor Air Exposure

As described in the Low-Threat Closure Policy (SWRCB 2012a), sites will meet the Media-Specific Criteria for direct contact with contaminated soil or inhalation of contaminants volatized to outdoor air if any of the following apply:

- The maximum concentrations of COPCs in soil are less than or equal to those listed in Table 1 of the Low-Threat Closure Policy (SWRCB 2012a).
- A site-specific risk assessment shows that COPCs present in soil will not adversely affect human health.
- Exposure to COPCs is mitigated through engineering controls.

This site meets the first criteria as summarized below:

• The site is completely covered with a building and pavement and there is little or no potential for direct human contact with site soil or for offsite wind dispersion of soil. Therefore, direct contact exposure pathways (i.e., ingestion, dermal contact, and inhalation of particulates) with soil are considered incomplete and are expected to remain the same in the future.

Data is included in Table 2. Benzene and ethylbenzene concentrations were evaluated using concentrations for using the LTC Policy commercial/industrial exposure because the site is not anticipated to be developed for residential use (Table 1 of SWRCB 2012a). Polycyclic aromatic hydrocarbons are not considered COPCs at the site.

		Commerci	al/Industrial		Util	ity Worker
		5 feet bgs mg/kg	air (5 to	tion to outdoor o 10 feet bgs) mg/kg		10 feet bgs mg/kg
Chemical	Low- Threat Closure Policy Table 1	Site Maximum	Low- Threat Closure Policy Table 1	Site Maximum	Low- Threat Closure Policy Table 1	Site Maximum
Benzene	8.2	0.0004 (MW-3)	12	0.004 (MW-2)	14	0.004 (MW-2)
Ethylbenzene	89	ND	134	0.002 (MW-2)	314	0.002 (MW-2)

As shown in the table above, the maximum concentrations of benzene and ethylbenzene are below the No Significant Risk Values (Table 1 of SWRCB 2012a) for commercial/industrial direct contact and volatilization to outdoor air and utility worker direct contact in soil samples collected from 0 to 10 feet bgs.

4 CONCLUSIONS

Monitoring wells MW-1 through MW-4 were successfully installed and developed in accordance with the Alameda County Public Works permit requirements. Arcadis will continue to monitor groundwater on a quarterly basis for four quarters.

Borehole locations HA-1 and HA-2 were successfully completed and abandoned in accordance with permit requirements.

Soil sampling and analysis were completed in accordance with the ACDEH approved Work Plan and Addendum. Soil sample analytical results are discussed in the context of the SWRCB LTC Policy criteria. Results indicate the site meets the LTCP Media-Specific Criteria for Direct Contact and Outdoor Air Exposure.

LTCP Criteria is not currently met for the Media Specific Criteria for groundwater plume stability. Additional quarterly sampling is planned and the Media Specific Criteria will be evaluated.

5 REFERENCES

SWRCB 2012a. Low-Threat Underground Storage Tank Case Closure Policy, August 17, 2012

SWRCB 2012b. Technical Justification for groundwater Media-Specific Criteria, April 24, 2012

Terraphase 2017. Summary of findings for Property History and Chemical Use Information Research for 1200 park Street, 1210 Park Street, 1222 park Street, and 24,07 San Jose Avenue, Alameda, CA, January 20, 2017.

Moore Twining Associates (MTA) 2016. Limited Phase II Environmental Site Assessment Report, 1200 Park Street, Alameda, California, May 11, 2016.

TABLES



Table 1 **Monitoring Well Construction Details** Former Chevron Service Station 90955 1200 Park St., Alameda, California **Chevron Environmental Management**



Monitoring Well ID	Istallation Date	Total Depth (ft)	Screen Interval (ft)	Water Level (bgs)
MW-1	3/20/2018	15	5-15	9.06
MW-2	3/20/2018	15	5-15	8.37
MW-3	3/20/2018	15	5-15	8.69
MW-4	3/21/2018	15	5-15	-
HA-1	3/21/2018	10	-	-
HA-2	3/21/2018	10	-	-

Notes:

ft = Feet

bgs=below ground surface

Table 2 Monitoring Well Soil Analytical Results Former Chevron Service Station 90955 1200 Park St., Alameda, California Chevron Environmental Management



Sample ID	Sample	Sample Depth	TPH-d 8015 (SGT)	TPH-d	трн-д	TPH-m	Benzene	Toluene	Ethyl- benzene	Total Xylenes	Naphthalene
	רמופ	(t t)	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
LTCP commercial Industrial no bioattenuation zone	ustrial no bioat	tenuation zone	I	I	I	I	8.2	I	89	I	45
ESLs (Commercial/Industrial)	dustrial)		1,100	1,100	3,900	140,000	۲	4,600	22	2,400	14
MW-1-S-3-180320	3/20/2018	-	DN	QN	QN	ΩN	QN	ŊŊ	QN	QN	DN
MW-1-S-5-180320	3/20/2018	5	Ŋ	QN	Q	QN	Q	QN	QN	QN	QN
MW-1-S-10-180320	3/20/2018	10	QN	5.7	Q	QN	Q	Ŋ	QN	QN	QN
MW-1-S-15-180320	3/20/2018	15	DN	QN	QN	ΩN	QN	ŊŊ	QN	QN	DN
MW-2-S-3-180320	3/20/2018	ę	DN	QN	QN	ΩN	0.0004	ŊŊ	QN	QN	QN
MW-2-S-5-180320	3/20/2018	5	DN	QN	QN	15	QN	0.008	QN	QN	QN
MW-2-S-8-180320	3/20/2018	ø	39	45	98	200	0.004	0.003	0.002	0.003	0.052
MW-2-S-10-180320	3/20/2018	10	52	56	87	40	Q	ŊŊ	QN	QN	0.33
MW-2-S-12-180320	3/20/2018	12	130	140	510	140	QN	ND	ND	ND	2
MW-2-S-15-180320	3/20/2018	15	ND	QN	QN	ΠN	QN	ND	ND	QN	ND
MW-3-S-3-180320	3/20/2018	З	ND	ND	ND	ΩN	ND	QN	ND	QN	ND
MW-3-S-5-180320	3/20/2018	5	ND	ND	ND	ΩN	ND	QN	ND	QN	ND
MW-3-S-10-180320	3/20/2018	10	ND	ND	ND	ΠN	0.002	0.000	0.001	ND	0.015
MW-3-S-15-180320	3/20/2018	15	ND	ND	ND	ΠN	ND	ND	ND	ND	ND
MW-4-S-3-180320	3/20/2018	3	ND	4.6	ND	ΠN	ND	ND	ND	ND	ND
MW-4-S-5-180320	3/20/2018	5	ND	ND	ND	ΠN	DN	ND	ND	ND	ND
MW-4-S-10-180321	3/21/2018	10	ND	ND	QN	ΠN	DN	ND	ND	ND	ΟN
MW-4-S-15-180321	3/21/2018	15	ΟN	QN	QN	QN	QN	ND	ŊŊ	ΟN	ND

Notes:

ft = Feet

mg/kg = Micrograms per kilogram

Bold = Value exceeds laboratory reporting limits

ND = Not detected at or above the stated Practical Quantitation Limit

TPH-d = Total petroleum hydrocarbons, diesel range

TPH-g = Total petroleum hydrocarbons, gasoline range by LUFT GC/MS according to Environmental Protection Agency (EPA) Method 8015B

TPH-m = Total petroleum hydrocarbons, motor oil range

TPH-d = Total petroleum hydrocarbons, diesel range by GC-5 according to EPA Method 8015B

SGT = Silica Gel Treated

Samples analyzed by EPA Method 8260B:

Benzene, toluene, ethylbenzene and total xylenes (collectively BTEX)

ESL = Environmental Screening Level





MJ mg/kg mg	Sample ID	Sample Date	D	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benozo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene
3/21/2018 3 0.004 0.005 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.006 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.011 0.016 0.016 0.011 0.016 0.016 0.016 0.016 0.016 0.011 0.011 0.011 0.011 0.011 0.016 <th></th> <th></th> <th>Ê</th> <th>mg/kg</th> <th>mg/kg</th> <th>mg/kg</th> <th>mg/kg</th> <th>mg/kg</th> <th>mg/kg</th> <th>mg/kg</th> <th>mg/kg</th> <th>mg/kg</th>			Ê	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3/21/2018 8 <0.004	HA-1-S-3-180321	3/21/2018	3	<0.004	<0.004	<0.004	0.004	0.005	0.006	0.007	0.005	0.007
3/21/2018 3 <0.004	HA-1-S-8-180321	3/21/2018	8	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	0.004	0.004	0.004
3/21/2018 8 <0.004 <0.004 <0.004 0.006 0.006	HA-2-S-3-180321	3/21/2018	3	<0.004	<0.004	<0.004	0.005	0.007	0.011	0.009	0.006	0.011
	HA-2-S-8-180321	3/21/2018	8	<0.004	<0.004	<0.004	0.004	0.005	0.006	0.007	0.005	0.011





Sample ID	Sample Date	e e	Dibenz(a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	Naphthalene	Phenthrene	Pyrene	PAH Equivalent Calculation	LTCP Commercial Industrial
		Ê	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
HA-1-S-3-180321	3/21/2018	3	0.004	0.005	<0.004	0.005	<0.004	<0.004	0.006	0.010638	0.68
HA-1-S-8-180321	3/21/2018	8	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.000484	0.68
HA-2-S-3-180321	3/21/2018	З	0.005	0.009	<0.004	0.007	0.005	0.011	0.011	0.014492	0.68
HA-2-S-8-180321	3/21/2018	8	0.004	0.006	<0.004	0.004	0.016	0.007	0.007	0.010551	0.68

Notes:

ft = Feet

mg/kg = Micrograms per kilogram

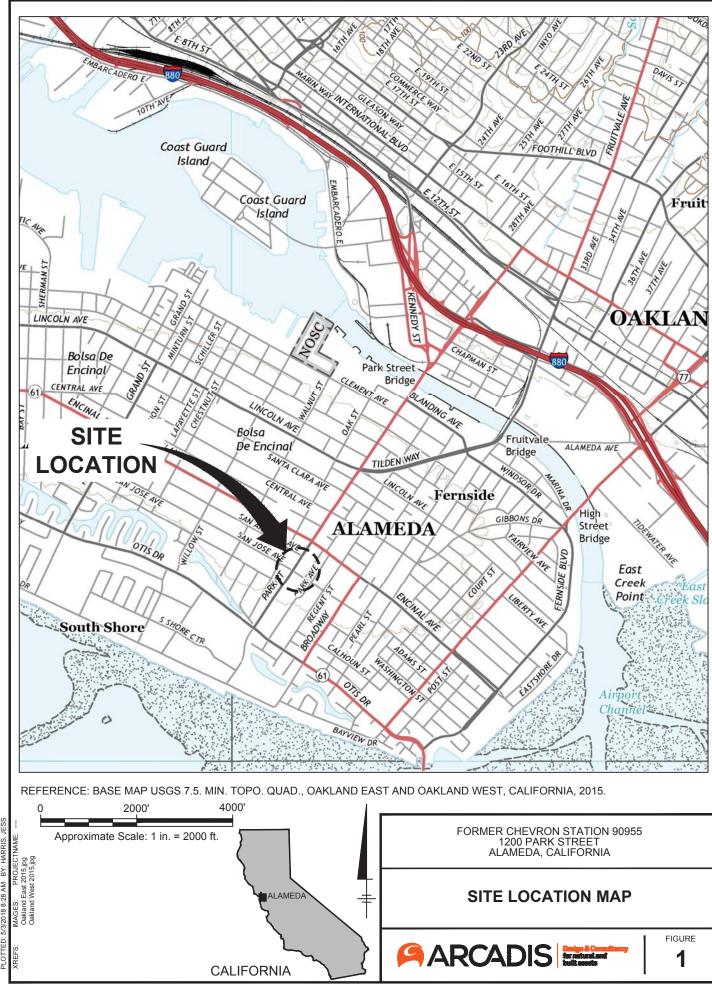
Bold = Value exceeds laboratory reporting limits PAH = Polyaromatic Hydrocarbons

PAH Equivalent Calculation = Based on the seven carcinogenic poly-aromatic hydrocarbons (PAHs) as benzo(a)pyrene toxicity equivalent [BaPe].

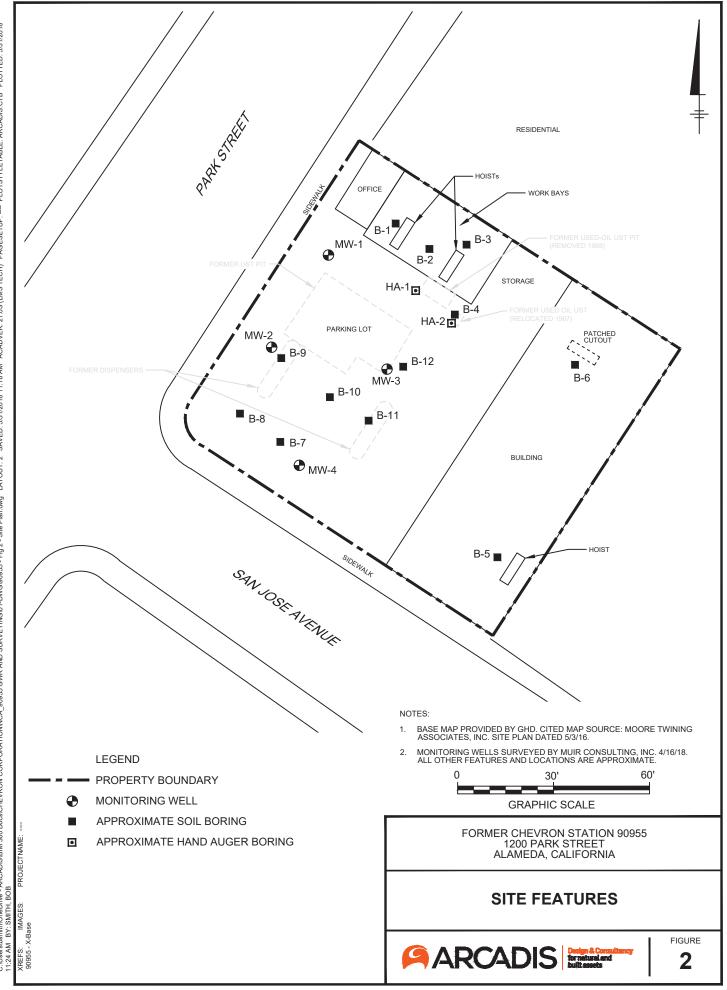
LTCP = Low threat Closure Policy

FIGURES

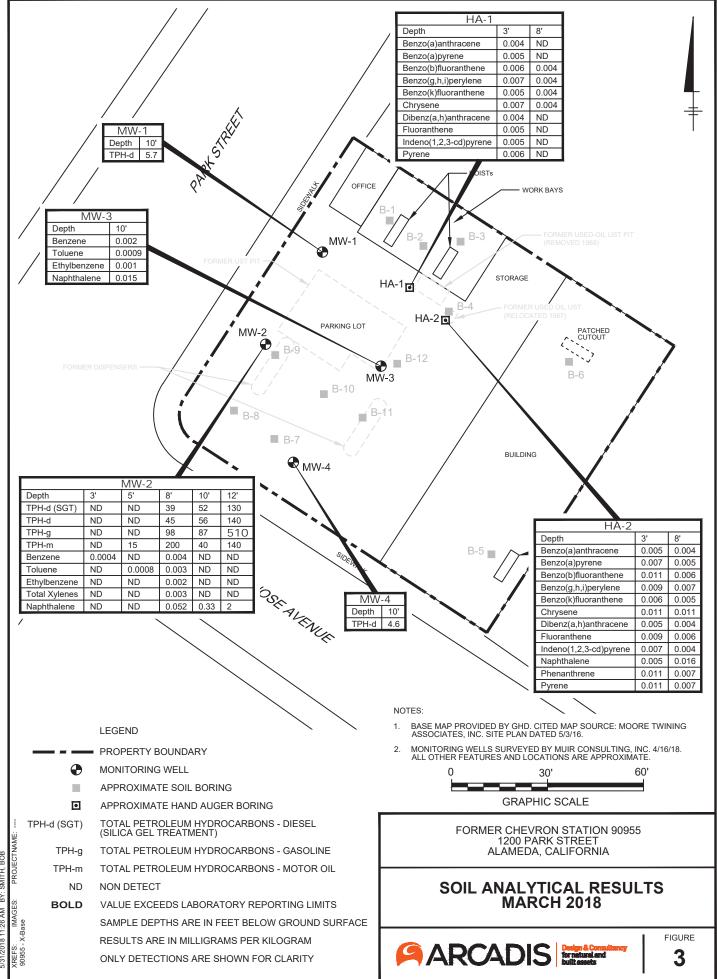




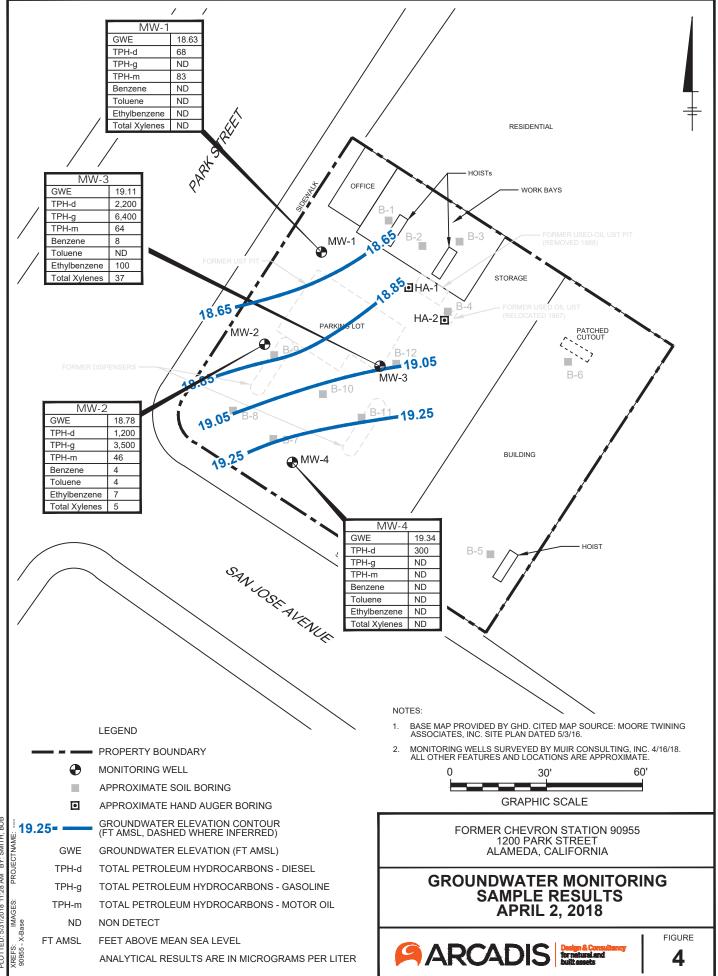
PLOTSTYLETABLE: ARCADIS.CTB ACADVER: 21.0S (LMS TECH) PAGESETUP: CAD DB: J. HARRIS 30 DocsiCHEVRON CORPORATIONNCA_90955 GWR and Surveying/2018/B0090955.GW18/01-DWG90955 - Fig 1 - SLM.dwg LAYOUT: 1 SAVED: 3/13/2018 2:44 PM JESS ENVCAD neDrive - ARCADIS/BIM 360 1 18 8:28 AM BY: HARRIS, JE: DIV/GROUP: Users\jlharris\OneDrive OTTED: 5/3/2018 8:28 A Ч CITY: SAN RAFAEL 5/3/201



--- PLOTSTYLETABLE: ARCADIS.CTB PLOTTED: 5/31/2018 CITY: SAN RAFAEL, CA DIV/GROUP: ENVCAD DB: J. HARRIS C:Userstbarnth)OneDrive - ARCADISIBIM 360 DocsICHEVRON CORPORATIONINCA_90855 GWR AND SURVEYING/01-DWG90855 - Fig 2 - Site Plan.dwg LAYOUT: 2 SAVED: 5/3/12018 11::18 AM ACADVER: 21.0S (LMS TECH) PAGESETUP: 11:24 AM BY: SMITH, BOB



PLOTTED PLOTSTYLETABLE: ARCADIS.CTB PAGESETUP: ACADVER: 21.0S (LMS TECH) 5/31/2018 11:17 AM SAVED: LAYOUT: 3 Results.dwg DIV/GROUP: ENVCAD DB: J. HARRIS - ARCADISIBIM 360 Docs/CHEVRON CORPORATIONINCA_90955 GWR AND SURVEYING/01-DWG/90955 - Fig 3 - Soil Sample SMITH, BOB sers/bsmith/OneDrive /2018 11:26 AM BY: CITY: SAN RAFAEL, CA

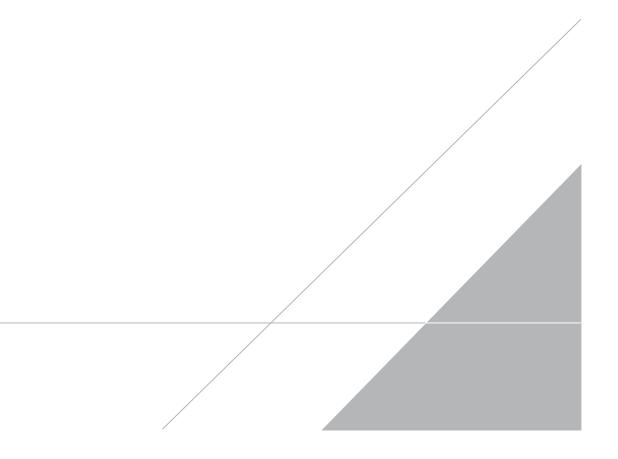


PLOTSTYLETABLE: ARCADIS.CTB I ACADVER: 21.0S (LMS TECH) PAGESETUP: SAVED: 5/31/2018 11:17 AM LAYOUT: 4 DIVIGROUP: ENVCAD DB: J. HARRIS ARCADISIBIM 380 DecsiCHEVRON CORPORATIONINCA_90955 GWR AND SURVEYING/01-DWG/90955 - Fig 4 - GW Monitoring Sample Results dwg AM BY: SMITH, BOB 11:28 smith\OneDrive -5/31/2018 11:28 PLOTTED:

DIV/GROUP: ENVCAD CITY: SAN RAFAEL, CA



Borehole Logs



ARC	ADIS	Design & Consultancy for natural and built assets					Boring	No.:_HA-1	
Soil Bo	orina	Loa						Sheet: 1 of	1
Project Nan	ne: <u>9</u>	0955				Date Started: 03-21-2018	_Logger: <u>B. Jes</u>	sup	·
						te Completed: 03-21-2018	_ Editor: <u>NA</u>		
Project Loc	ation: <u>1</u>	<u>200 Park</u>	Street, Alameda CA			Weather Co	onditions: <u>NA</u>		
Depth (feet)	Blow Counts	Recovery (in.)	Sample ID & Time	PID (ppm)	USCS Class	Description		Construction Details	Well
1		н		0.1		(0.0-0.2') Asphalt. (0.2-0.7') SAND and GRAVEL, fine to medi to 10 cm diameter, subangular to subrour sorted; loose; moist; dark grayish brown (0.7-10.0') SAND, fine to medium; well so dark grayish brown (10YR 4/2).	nded; poorly (10YR 4/2).		
2		А		0.1					
		N		0.2		At 2.5' bgs. Brown (10YR 5/3).			
3		D	HA-1-S-3-20180321 (1002)	0.3					
4									
5				0.1				Backfilled with native	
6		А		0.2				material	
7		U		0.1					
		G		0.1					
		E	HA-1-S-8-20180321 (1005)	0.1		At 8.0' bgs. Trace silt.			
		R		0.1		At 9.5' bgs. Wet.		¥	
						End of Boring at 10.0 ft bgs.			
Drilling Co.:		ascade D	Prilling	1	1	Sampling Method:Hollow S	Stem Auger		
Driller:		IA	-			O a man line in the tarm and to O a setting a	-		
Drilling Met			n / Hollow Stem Auge						
Drilling Flui		lone					c. <u>):NA</u>		
Drill Rig:		eoprobe	,		-			No	
Remarks:			/ in = inch; bgs= below						
	=	parts per	million; NA = not applic	aple / a	valiable.	North Coor: East Coor:			

ARC	ADIS	Design & Consultancy for natural and built assets					Boring	No.: <u>HA-2</u>	
Soil B								Sheet: 1 of	1
Project Na						Date Started: <u>03-21-2018</u>	_Logger: <u>R. Al</u>	/arez	1
Project Nu	ımber: <u>E</u>	0090955	00SA.00005		_ Date	Completed: <u>03-21-2018</u>			
Project Lo		200 Park	Street, Alameda CA	1		Weather Co	onditions: <u>NA</u>		
Depth (feet)	Blow Counts	Recovery (in.)	Sample ID & Time	PID (ppm)	USCS Class	Description		Construction Details	Well
1		н		0.1		0.0-0.1') Asphalt. 0.1-0.8') GRAVEL, very fine to large pebb ubangular; poorly sorted; dry; dark gravi /2). 0.8-3.0') SAND, very fine to fine; well sor rayish brown (10YR 4/2).	ish brown (10YR		
		A		0.1	5	rayish brown (1017 4/2).			
		N		0.0					
3		D	HA-2-S-3-20180321 (1000)	0.0		3.0-10.0') SAND, very fine to fine; well so rown (10YR 5/3).	orted; dense;		
4				0.0				Backfilled	
5		A		0.1				with	
6				0.0					
900825 GHD 75 7		U							
		G	HA-2-S-8-20180321	0.0					
99955.6PU GINT TEM		E	(1010)	0.0					
		R		0.0		t 10.0' bgs. Wet.		¥	
11 11					E	nd of Boring at 10.0 ft bgs.			
Drilling Co	.: C	ascade D	Prilling	·	1	Sampling Method:Hollow	Stem Auger	· · · · · · · · · · · · · · · · · · ·	
Driller:		IA	- v			Compliant Intom vals Constinue	-		
Drilling Me			h / Hollow Stem Auge						
Drilling Flu		lone							
Drill Rig:		Geoprobe				Converted to Well:		<⊡ No	
Remarks:			/ in = inch; bgs= below						
	=	parts per	million; NA = not applic	aule / a	valiable.	North Coor:			
±						East Coor:			

	ADIS	Design & Consultancy for natural and built assets					Boring	No.:	
Soil Bo								Sheet: 1 of	1
Project Na		0955				Date Started: 03-20-2018	Logger: <u>K. Co</u>		I
Project Nu	mber: <u>E</u>	30090955	00SA.00005		_ Da	ate Completed: 03-20-2018	Editor: NA	-	
Project Lo	cation: <u>1</u>	200 Park	Street, Alameda CA			Weather C	onditions: <u>NA</u>		
Depth (feet)	Blow Counts	Recovery (in.)	Sample ID & Time	PID (ppm)	USCS Class	Description		Construction Details	Well
		н		0.1		(0.0-0.1') Asphalt. (0.1-0.7') GRAVEL, very fine to large pebl subangular; poorly sorted; dry; dark gray 4/2).	ble, subround to yish brown (10YR		
		A		0.0		(0.7-3.0') SAND, very fine to fine; trace si dark grayish brown (10YR 4/2).	ilt; well sorted; dry;	Neat cement	
2		N		0.3				2" Sch. 40 PVC Riser	
3		D	MW-1-S-3-20180320 (0940)	0.4		(3.0-9.5') SAND, very fine to fine; well so (10YR 5/3).	rted; dry; brown	Hydrated Bentonite — Chips-3/8"	
4		A		0.5				#2/12 Sand Filter	
5		U	MW-1-S-5-20180320 (0950)	0.6				Pack	
6		G		0.8					
7		R							
8				0.7	-				
9				1.3				.	
— 10		4/4	MW-1-S-10-20180320	1.4		(9.5-15.0') SAND, very fine to fine; well s moist; light olive brown (2.5Y 5/6).	orted; dense;	2" Sch. 40 PVC 0.02" — slotted	
 11			(1310)	1.7				screen	
 12				1.6					
				1.4					
		3/4		1.2		At 13.0' bgs. Wet.			
			MW-1-S-15-20180320 (1320)	1.3					
						End of Boring at 15.0 ft bgs.			
Drilling Co	.: (L Cascade D)rilling		I	Sampling Method:Hollow	Stem Auger	<u> </u>	<u> </u>
Driller:		NA					-		
Drilling Me			h / Hollow Stem Auge	r					
Drilling Flu		lone				Water Level Finish (ft. bto		-	
Drill Rig:		Geoprobe	,		-	Converted to Well: X	Yes	No	
Remarks:			/ in = inch; bgs= below						
	=	- parts per	million; NA = not applic	adie / a	valiable				
± [East Coor:			

ARC	ADIS	Design & Consultancy for natural and built assets					Boring	g No.: <u>MW-2</u>		
Soil Bo								Sheet: 1 of	1	
Project Na	_	0955				Date Started: 03-20-2018	_Logger: <u>K. Co</u>	orrigan		
-			00SA.00005			ate Completed: 03-20-2018	_ Editor: <u>NA</u> onditions: <u>NA</u>			
		200 Park	Street, Alameda CA			Weather C	onditions. <u>INA</u>	1		
Depth (feet)	Blow Counts	Recovery (in.)	Sample ID & Time	PID (ppm)	USCS Class	Description		Construction Details	We	911
		н		1.0		(0.0-0.1') Asphalt. (0.1-1.0') SAND, very fine to medium; we dry; brown (10YR 5/3).	ll sorted; dense;			
		A		0.9		(1.0-3.5') GRAVEL, very fine to small pebl subangular; poorly sorted; dense; dry; da (10YR 4/2).	ole, subround to ark grayish brown	Neat cement		
2		N			00			2" Sch. 40 PVC		
		D		1.0				Riser		
			MW-2-S-3-20180320 (1020)	0.9	s O ° C			Hydrated Bentonite —		
4				0.5		(3.5-5.0') SAND, very fine to medium; we dry; brown (10YR 5/3).	Il sorted; dense;	Chips-3/8"		
		A		1.0				#2/12 Sand		
5		U	MW-2-S-5-20180320 (1030)	1.0		(5.0-13.0') SAND, very fine to small pebb		Filter Pack		
6		G	(1050)	17.7		subangular; trace silt; poorly sorted; den greenish gray (GLEY 1 4/1). Odor begins at 5.0' bgs.	se; dry; dark			
		E		48.4						
		R		95.6						
° - -			MW-2-S-8-20180320 (1050)	19.4				¥		
9 <u> </u>				43.2		At 9.0' bgs. Moist.		2" Sch. 40 PVC		
10 10		2/4	MW-2-S-10-20180320 (1420)	41.4				0.02" — slotted screen		
۵٥ <u>ماریمی المعامی میں میں میں میں میں میں میں میں میں م</u>				674		At 11.0' bgs. Wet.				
12 12			MW-2-S-12-20180320 (1430)	59.2						
13 145		3/3		7.4		(13.0-15.0') SAND, very fine to fine; trace dense; wet; light olive brown (2.5Y 5/6).	silt; well sorted;			
14				1.9						
15			MW-2-S-15-20180320 (1440)	1.5						
						End of Boring at 15.0 ft bgs.				
16 Drilling Co		L Cascade D	Drilling		<u> </u>	Sampling Method:Hollow	Stem Auger	11	1	
Driller:		NA					-			
Drilling Me	ethod: [h / Hollow Stem Auge			Water Level Start (ft. bgs.): 8.37			
Drilling Flu		<u>lone</u>				Water Level Finish (ft. bto				
Drill Rig:		<u>Geoprobe</u>	/ in = inch; bgs= below	around	ourfees	Converted to Well: 🗵		No		
Remarks:			million; NA = not applic							
						East Coor:				
_										_

ARC	ADIS	Design & Consultancy for natural and built assets					Boring	No.:MW-3		
Soil Bo	orina	Loa						Sheet: 1 of	1	
Project Na	me: <u>9</u>	0955				Date Started: <u>03-20-2018</u>	_Logger: <u>K. Co</u>			
-						ate Completed: <u>03-20-2018</u>	Editor: <u>NA</u>			
Project Lo	cation: <u>1</u>	200 Park	Street, Alameda CA		_	Weather C	onditions: <u>NA</u>			
Depth (feet)	Blow Counts	Recovery (in.)	Sample ID & Time	PID (ppm)	USCS Class	Description		Construction Details	w	/ell
		н				(0.0-0.5') Asphalt/Concrete(5").				
1					<u>000</u>	(0.5-0.7') GRAVEL, very fine to large pebl subangular; poorly sorted; dry; dark gray	ole, subround to vish brown (10YR			
L _		A		0.9		4/2). (0.7-3.0') SAND, very fine to fine; trace si	lt; well sorted; dry;	Neat cement		
2		N				dark grayish; brown (10YR 4/2).		2" Sch.		
L _				0.9				40 PVC		
3		D								
			MW-3-S-3-20180320 (1330)	0.9		(3.0-10.0') SAND, very fine to fine; well so brown (10YR 5/3).	orted; dry; dense;	Hydrated Bentonite — Chips-3/8"		
4		A						#2/12 Sand		
				0.8				Filter Pack		
		U	MW-3-S-5-20180320 (1340)							
		G	(1340)	0.6						
6						- - -			E	
		E		0.6					E	
7		R							E	
				0.3						
8						At 8.0' bgs. Wet.			E	
⊢ −				0.9				¥		
9									E	
, 				1.9				2" Sch. 40 PVC	E	
10		4/4	MW-3-S-10-20180320			(10.0-13.0') SAND, very fine to fine; well	sorted; wet; dense;	0.02" — slotted	t E	
– –			(1550)	18.2		dark greenish gray (GLEY 1 4/5; 6/1). Odor present.		screen		≣∷
11									E	
— —				11.7						
12									E	
– –				1.4					E	
13						(13.0-15.0') SAND, very fine to fine; well	sorted; wet; dense;		E	
– –		3/4		1.4		brown (10ÝR 5/3). No odor			E	
14									E	
– –			MW-3-S-15-20180320	1.3					E	
15			(1600)			End of Boring at 15.0 ft bgs.				
16										
Drilling Co Driller:		<u>Cascade E</u> NA	C C			O a man line as last a more la O a metima	•			
Drilling Me	_		h / Hollow Stem Auge							
Drilling Flu		lone				Water Level Finish (ft. bto	oc. <u>):NA</u>			
Drill Rig:		Geoprobe					Yes	No		
Remarks:			<u>'/ in = inch; bgs= below</u> million; NA = not applic							
				avic / d	valiaDIE	East Coor:				
•									-	-

ARC	ADIS	Design & Consultancy for natural and built assets					Boring	No.: <u>MW-4</u>	
Soil Bo	orina	Loa						Sheet: 1 of	1
Project Na		0955				Date Started: 03-20-2018	_Logger: K. Co		
Project Nu	mber: <u>E</u>	80090955	.00SA.00005		Da	ate Completed: 03-21-2018	Editor: NA	-	
Project Lo	cation: <u>1</u>	<u>200 Park</u>	Street, Alameda CA			Weather Co	onditions: <u>NA</u>		
Depth (feet)	Blow Counts	Recovery (in.)	Sample ID & Time	PID (ppm)	USCS Class	Description		Construction Details	Well
		н		1.0		(0.0-0.1') Asphalt. (0.1-0.8') GRAVEL, very fine to large pebb subangular; poorly sorted; dry; dark gray 4/2).	ble, subround to ish brown (10YR		
		A		1.1		(0.7-3.0') SAND, very fine to fine; trace sil dark grayish brown (10YR 4/2).	lt; well sorted; dry;	Neat cement	
2 		N		1.0				2" Sch. 40 PVC Riser	
3		D	MW-4-S-3-20180320 (1130)	1.1		(3.0-15.0') SAND, very fine to fine; well so brown (10YR 5/3).	orted; dense;	Hydrated Bentonite —	-
4		A		1.2				Chips-3/8" #2/12 Sand Filter	
5		U	MW-4-S-5-20180320 (1140)	1.2				Pack	
6		G							
7		E		1.3					
8	-			1.2		At 8.0' bgs. Trace silt, wet.			
9				0.0					
 10		NA	MW-4-S-10-20180321	0.1				2" Sch. 40 PVC 0.02" —	
Geo. (19) (11			(0815)	0.1				slotted screen	
				0.0					
				0.3					
		NA		0.3					
			MW-4-S-15-20180321 (0835)	0.3					
			(0000)			End of Boring at 15.0 ft bgs.			
f 16 Drilling Co	· (l Jascade F	rilling	1		Sampling Method: <u>Hollow</u>	Stem Auger		<u> </u>
Drilling Co.: <u>Cascade Drilling</u>						-			
Ind I									
Drilling Flu		lone				Water Level Finish (ft. bto	,		
Drill Rig:		Geoprobe				Converted to Well: 🔍		No	
Remarks:			'/ in = inch; bgs= below						
	=	parts per	million; NA = not applic	able / a	vailable				
L L L L L L L L L L L L L L L L L L L						East Coor:			

APPENDIX B

Permits



Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 03/14/2018 By jamesy

Permit Numbers: W2018-0165 to W2018-0169 Permits Valid from 03/20/2018 to 03/20/2018

Application Id: Site Location: Project Start Date: Assigned Inspector:	1520021860341 1200 Park St, Alameda, CA 94501, USA 03/20/2018 Contact Marcelino Vialpando at (510) 670-5760 or N	City of Project Site:Alameda Completion Date:03/20/2018 Marcelino@acpwa.org
Applicant:	Arcadis U.S. Inc Andrea Sanchez	Phone: 510-596-9675
Property Owner:	6296 San Ignacio Ave., Suite C, San Jose, CA 951 M. Jay Garfinkle	Phone:
Client:	352 Capetown Dr., Alameda, CA 94502 Chevron Environmental Management	Phone:
Contact:	6001 Bollinger Canyon Rd., San Ramon, CA 94583 Katherine Szymanowski	Phone: Cell:
	To Receipt Number: WR2018-0128 To	tal Due: \$1853.00 tal Amount Paid:\$1853.00

Payer Name : Arcadis U.S. Inc. Paid By: CHECK

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 4 Wells Driller: Cascade Drlling - Lic #: 938110 - Method: auger

Specification	ns							
Permit #	Issued Date	Expire Date	Owner Well	Hole Diam.	Casing	Seal Depth	Max. Depth	
			ld		Diam.			
W2018-	03/14/2018	06/18/2018	MW-1	8.00 in.	2.00 in.	1.00 ft	15.00 ft	
0165								
W2018-	03/14/2018	06/18/2018	MW-2	8.00 in.	2.00 in.	1.00 ft	15.00 ft	
0166								
W2018-	03/14/2018	06/18/2018	MW-3	8.00 in.	2.00 in.	1.00 ft	15.00 ft	
0167								
W2018-	03/14/2018	06/18/2018	MW-4	8.00 in.	2.00 in.	1.00 ft	15.00 ft	
0168								

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

Work Total: \$1588.00

PAID IN FULL

Alameda County Public Works Agency - Water Resources Well Permit

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 30 days. Include permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

6. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie.

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

11. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

Borehole(s) for Investigation-Environmental/Monitorinig Study - 2 Boreholes Driller: Cascade Driling - Lic #: 938110 - Method: Hand

Work Total: \$265.00

Specifications									
Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth				
Number			Boreholes						
W2018-	03/14/2018	06/18/2018	2	4.00 in.	10.00 ft				
0169									

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

Alameda County Public Works Agency - Water Resources Well Permit

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

6. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

7. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX C

Well Completion Reports



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OWR 188 REV 2/2017

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OWR 186 REV 1/2017

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EWH 188 REV 2/2817

ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

APPENDIX D

Laboratory Analytical Report





2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv



ANALYSIS REPORT

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Chevron L4310 6001 Bollinger Canyon Road San Ramon CA 94583

Report Date: April 25, 2018 17:07

Project: 90955

Account #: 11964 Group Number: 1922999 PO Number: 0015269765 Release Number: CMACLEOD

State of Sample Origin: CA

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Arcadis

Attn: Katherine Szymanowski

Respectfully Submitted,

Elisabeth a.

Élisabeth A. Knisley Project Manager

(717) 556-7262



2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv



SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
MW-1-S-3-180320 Grab Soil	03/20/2018 09:40	9520222
MW-1-S-5-180320 Grab Soil	03/20/2018 09:50	9520223
MW-1-S-10-180320 Grab Soil	03/20/2018 13:10	9520224
MW-1-S-15-180320 Grab Soil	03/20/2018 13:20	9520225
MW-2-S-3-180320 Grab Soil	03/20/2018 10:20	9520226
MW-2-S-5-180320 Grab Soil	03/20/2018 10:30	9520227
MW-2-S-8-180320 Grab Soil	03/20/2018 10:50	9520228
MW-2-S-10-180320 Grab Soil	03/20/2018 14:20	9520229
MW-2-S-12-180320 Grab Soil	03/20/2018 14:30	9520230
MW-2-S-15-180320 Grab Soil	03/20/2018 14:40	9520231
MW-3-S-3-180320 Grab Soil	03/20/2018 13:30	9520232
MW-3-S-5-180320 Grab Soil	03/20/2018 13:40	9520233
MW-3-S-10-180320 Grab Soil	03/20/2018 15:50	9520234
MW-3-S-15-180320 Grab Soil	03/20/2018 16:00	9520235
MW-4-S-3-180320 Grab Soil	03/20/2018 11:30	9520236
MW-4-S-5-180320 Grab Soil	03/20/2018 11:40	9520237
MW-4-S-10-180321 Grab Soil	03/21/2018 08:15	9520238
MW-4-S-15-180321 Grab Soil	03/21/2018 08:35	9520239
HA-1-S-3-180321 Grab Soil	03/21/2018 10:02	9520240
HA-1-S-8-180321 Grab Soil	03/21/2018 10:05	9520241
HA-2-S-3-180321 Grab Soil	03/21/2018 10:00	9520242
HA-2-S-8-180321 Grab Soil	03/21/2018 10:10	9520243

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.



Project Name:

Lancaster Laboratories **Environmental**

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: MW-1-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 09:40

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520222 1922999

		20/2010 03.40					
CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
GC/MS	S Volatiles	SW-846 8260	B	mg/kg	mg/kg		
10237	Benzene		71-43-2	N.D.	0.0004	0.81	
10237	Ethylbenzene		100-41-4	N.D.	0.0009	0.81	
10237	Naphthalene		91-20-3	N.D.	0.0009	0.81	
10237	Toluene		108-88-3	N.D.	0.0009	0.81	
10237	Xylene (Total)		1330-20-7	N.D.	0.0009	0.81	
GC Vo	latiles	SW-846 8015	B modified	mg/kg	mg/kg		
01725	TPH-GRO N. CA soil C6-0	C12	n.a.	N.D.	0.4	20.16	
GC Mi	scellaneous	SW-846 8015	5B	mg/kg	mg/kg		
10941	TPH-DRO soil C10-C28 m	nicrowave	n.a.	N.D.	4.2	1	
	The holding time was not data reported.		as notified and the				
GC Pe	troleum	SW-846 8015	5B modified	mg/kg	mg/kg		
Hydro	carbons						
02516	Total TPH		n.a.	N.D.	11	1	
02516	TPH Motor Oil C16-C36		n.a.	N.D.	11	1	
that o	quantitation is based on pea of a hydrocarbon component n-octane) through C40 (n-tet	t mix calibration in	a range that include				
	troleum carbons w/Si	SW-846 8015	5B	mg/kg	mg/kg		
02222	TPH-DRO soil C10-C28 w The reverse surrogate, ca The holding time was not data reported.	pric acid, is preser		N.D.	4.2	1	
Wet C	hemistry	SM 2540 G-1 %Moisture C		%	%		
00111	Moisture		n.a.	5.7	0.50	1	
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.						

Sample Comments

CA ELAP Lab Certification No. 2792

		Labo	oratory S	Sample Anal	ysis Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



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Analysis Report

Sample Description:	MW-1-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520222 1922999
Project Name:	90955		
Submittal Date/Time:	03/23/2018 10:15		
Collection Date/Time:	03/20/2018 09:40		

	Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor					
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 16:51	Jennifer K Howe	0.81					
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 09:40	Client Supplied	1					
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 09:40	Client Supplied	1					
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 09:40	Client Supplied	1					
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/26/2018 21:54	Jeremy C Giffin	20.16					
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 09:40	Client Supplied	n.a.					
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 16:07	Thomas C Wildermuth	1					
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 14:40	Timothy M Emrick	1					
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 16:10	Thomas C Wildermuth	1					
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1					
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1					
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1					
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1					



Project Name:

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Sample Description: MW-1-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 09:50

Analysis Report

Chevron	
ELLE Sample #:	SW 9520223
ELLE Group #:	1922999
Matrix: Soil	

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Li	mit	Dilution Factor			
GC/MS	Volatiles	SW-846 8260	В	mg/kg	mg/kg					
10237 10237 10237 10237 10237	Benzene Ethylbenzene Naphthalene Toluene		71-43-2 100-41-4 91-20-3 108-88-3	N.D. N.D. N.D. N.D.	0.0004 0.0009 0.0009 0.0009		0.83 0.83 0.83 0.83			
10237	Xylene (Total)		1330-20-7	N.D.	0.0009		0.83			
GC Vol	atiles	SW-846 8015	B modified	mg/kg	mg/kg					
01725	TPH-GRO N. CA soil C6-0	012	n.a.	N.D.	0.4		20.63			
GC Mis	cellaneous	SW-846 8015	В	mg/kg	mg/kg					
10941	TPH-DRO soil C10-C28 n The holding time was not data reported.		n.a. is notified and the	N.D.	4.3		1			
GC Pet	GC Petroleum SW-846 8015B modified mg/kg mg/kg									
-	arbons									
02516	Total TPH		n.a.	N.D.	11		1			
that o	TPH Motor Oil C16-C36 quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in a	a range that include		11		1			
	roleum arbons w/Si	SW-846 8015	В	mg/kg	mg/kg					
02222	TPH-DRO soil C10-C28 w The reverse surrogate, ca The holding time was not data reported.	pric acid, is presen		N.D.	4.3		1			
Wet Ch	emistry	SM 2540 G-1 %Moisture C		%	%					
00111	Moisture Moisture represents the lo 103 - 105 degrees Celsius as-received basis.				0.50		1			

Sample Comments

CA ELAP Lab Certification No. 2792

		Labo	oratory S	ample Ana	lysis Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



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Analysis Report

Sample Description:	MW-1-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520223 1922999
Project Name:	90955	Matrix. Son	
Submittal Date/Time:	03/23/2018 10:15		
Collection Date/Time:	03/20/2018 09:50		

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 17:14	Jennifer K Howe	0.83			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 09:50	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 09:50	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 09:50	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/26/2018 22:32	Jeremy C Giffin	20.63			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 09:50	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/08/2018 22:24	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 15:02	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 23:52	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1			



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Analysis Report

Sampl	Sample Description: MW-1-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-			Chevron ELLE Samı ELLE Grou Matrix: So	p #: 1922999
Projec	t Name:	90955			
	ttal Date/Time: tion Date/Time:	03/23/2018 10:15 03/20/2018 13:10			
CAT No.	Analysis Name	CAS Numb	Dry per Result	Dry Method Detection Limit	Dilution Factor
GC/MS	S Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237 10237 10237 10237 10237 10237	Benzene Ethylbenzene Naphthalene Toluene Xylene (Total)	71-43-2 100-41-4 91-20-3 108-88-3 1330-20-7	N.D. N.D. N.D. N.D. N.D.	0.0004 0.0008 0.0008 0.0008 0.0008	0.71 0.71 0.71 0.71 0.71
10207	Aylene (Total)	1000 20 1	N.D.	0.0000	0.71
	latiles	SW-846 8015B modifie		mg/kg	
01725	TPH-GRO N. CA so	pil C6-C12 n.a.	N.D.	0.4	17.86
GC Mi 10941	Scellaneous TPH-DRO soil C10 The holding time wa data reported.	SW-846 8015B -C28 microwave n.a. as not met. The client was notified an	mg/kg 5.7 Id the	mg/kg 4.6	1
GC Pe	troleum	SW-846 8015B modifie	ed mg/kg	mg/kg	
	carbons				
02516	Total TPH	n.a.	N.D.	11	1
that	of a hydrocarbon com	-C36 n.a. on peak area comparison of the samp ponent mix calibration in a range that) (n-tetracontane) normal hydrocarbor	includes	11	1
	troleum	SW-846 8015B	mg/kg	mg/kg	
	carbons w/Si			4.0	
02222		-C28 w/Si Gel n.a. ate, capric acid, is present at <1%. as not met. The client was notified ar	N.D.	4.6	1
Wet C	hemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111		n.a. s the loss in weight of the sample afte Celsius. The moisture result reported		0.50	1

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		



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Sample Description:	MW-1-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1	ELLE Sample #: SW 9520224		
Project Name:	90955			
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 13:10			

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 17:38	Jennifer K Howe	0.71			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 13:10	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 13:10	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 13:10	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/26/2018 23:10	Jeremy C Giffin	17.86			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 13:10	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 15:27	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 15:23	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 16:30	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1			



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Analysis Report

Sample Description: MW-1-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-		/-1	Chevron ELLE Samı ELLE Grou Matrix: Soj	p #: 1922999
Project Name:	90955			•
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 13:20			
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles 10237 Benzene 10237 Ethylbenzene 10237 Naphthalene 10237 Toluene 10237 Xylene (Total) GC Volatiles 01725 TPH-GRO N. CA so GC Miscellaneous 10941 TPH-DRO soil C10- The holding time wa data reported.	SW-846 8015B	mg/kg N.D. N.D. N.D. N.D. mg/kg N.D. mg/kg N.D.	mg/kg 0.0004 0.0008 0.0008 0.0008 0.0008 mg/kg 0.4 mg/kg 4.2	0.8 0.8 0.8 0.8 0.8 18.41
that of a hydrocarbon comp	SW-846 8015B modified n.a. C36 n.a. on peak area comparison of the sample pa conent mix calibration in a range that include (n-tetracontane) normal hydrocarbons.		mg/kg 10 10	1 1
	SW-846 8015B C28 w/Si Gel n.a. ate, capric acid, is present at <1%. as not met. The client was notified and the	mg/kg N.D.	mg/kg 4.2	1
	SM 2540 G-1997 %Moisture Calc n.a. a the loss in weight of the sample after over Celsius. The moisture result reported is on		% 0.50	1

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	



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Sample Description:	MW-1-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1	N ELLE Sample #: SW 9520225		
Project Name:	90955			
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 13:20			

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 18:01	Jennifer K Howe	0.8	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 13:20	Client Supplied	1	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 13:20	Client Supplied	1	
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 13:20	Client Supplied	1	
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/26/2018 23:48	Jeremy C Giffin	18.41	
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 13:20	Client Supplied	n.a.	
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 15:47	Thomas C Wildermuth	1	
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 15:45	Timothy M Emrick	1	
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 16:50	Thomas C Wildermuth	1	
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1	
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1	
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1	



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Sample Description: MW-2-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 10:20

Analysis Report

Chevron ELLE Sample #: SW 9520226 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260)B	mg/kg	mg/kg	
10237	Benzene		71-43-2	0.0004	0.0004	0.7
10237	Ethylbenzene		100-41-4	N.D.	0.0008	0.7
10237	Naphthalene		91-20-3	N.D.	0.0008	0.7
10237	Toluene		108-88-3	N.D.	0.0008	0.7
10237	Xylene (Total)		1330-20-7	N.D.	0.0008	0.7
GC Vo	latiles	SW-846 801	5B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-	C12	n.a.	N.D.	0.4	18.63
GC Mis	scellaneous	SW-846 801	5B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 r The holding time was not data reported.		n.a. as notified and the	N.D.	4.3	1
GC Pe	troleum	SW-846 8015	5B modified	mg/kg	mg/kg	
Hydro	carbons					
02516	Total TPH		n.a.	N.D.	11	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.	11	1
that o	quantitation is based on pea of a hydrocarbon componen -octane) through C40 (n-tel	t mix calibration in	a range that include			
	troleum carbons w/Si	SW-846 801	5B	mg/kg	mg/kg	
02222	TPH-DRO soil C10-C28 v The reverse surrogate, ca The holding time was not data reported.	apric acid, is presei		N.D.	4.3	1
Wet CI	nemistry	SM 2540 G-1 %Moisture C		%	%	
00111	Moisture		n.a.	7.2	0.50	1
	Moisture represents the lo 103 - 105 degrees Celsiu as-received basis.					

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	



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Analysis Report

SW 9520226

1922999

Sample Description:	MW-2-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil
Project Name:	90955	
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 10:20	

		Labor	atory S	Sample Analysis	s Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 18:24	Jennifer K Howe	0.7
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 10:20	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 10:20	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 10:20	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 00:26	Jeremy C Giffin	18.63
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 10:20	Client Supplied	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 05:05	Thomas C Wildermuth	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 20:24	Timothy M Emrick	1
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 17:10	Thomas C Wildermuth	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1



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Sample Description: MW-2-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 10:30

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520227 1922999

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	S Volatiles	SW-846 826	0B	mg/kg	mg/kg	
10237	Benzene		71-43-2	N.D.	0.0004	0.7
10237	Ethylbenzene		100-41-4	N.D.	0.0008	0.7
10237	Naphthalene		91-20-3	N.D.	0.0008	0.7
10237	Toluene		108-88-3	0.0008	0.0008	0.7
10237	Xylene (Total)		1330-20-7	N.D.	0.0008	0.7
GC Vo	latiles	SW-846 801	5B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil Ce		n.a.	N.D.	0.4	17.41
CC Mi	scellaneous	SW-846 801	ED	mg/kg	mg/kg	
-						
10941	TPH-DRO soil C10-C28 The holding time was no data reported.		n.a. vas notified and the	N.D.	4.5	1
	troleum	SW-846 801	5B modified	mg/kg	mg/kg	
Hydro	carbons					
02516	Total TPH		n.a.	15	11	1
02516	TPH Motor Oil C16-C36	i	n.a.	15	11	1
that o	quantitation is based on p of a hydrocarbon compone n-octane) through C40 (n-t	ent mix calibration in	n a range that includ			
	troleum	SW-846 801	5B	mg/kg	mg/kg	
Hydro	carbons w/Si					
02222	TPH-DRO soil C10-C28	w/Si Gel	n.a.	16	4.5	1
	The reverse surrogate, of The holding time was no data reported. The sample was re-extra time to confirm sample of	ot met. The client v acted outside the n	vas notified and the nethod required hold			
Tria	ID: RE					
02222	TPH-DRO soil C10-C28	w/Si Gel	n.a.	N.D.	4.5	1
<u>ULLL</u>	The reverse surrogate, of The holding time was no data reported. The sample was re-extra time to confirm sample in	capric acid, is prese ot met. The client v acted outside the n	ent at <1%. vas notified and the nethod required hold	ing	4.0	·
Wet Cl	nemistry	SM 2540 G- %Moisture		%	%	
00111	Moisture		n.a.	11.1	0.50	1
	Moisture represents the 103 - 105 degrees Celsi as-received basis.		e sample after oven	drying at		



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SW 9520227

1922999

Chevron

ELLE Sample #:

ELLE Group #:

Matrix: Soil

Sample Description:	MW-2-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2
Project Name:	90955
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 10:30

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 18:47	Jennifer K Howe	0.7		
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 10:30	Client Supplied	1		
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 10:30	Client Supplied	1		
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 10:30	Client Supplied	1		
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 01:04	Jeremy C Giffin	17.41		
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 10:30	Client Supplied	n.a.		
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/10/2018 18:57	Thomas C Wildermuth	1		
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 20:45	Timothy M Emrick	1		
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 17:31	Thomas C Wildermuth	1		
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	2-RE	181080006A	04/23/2018 17:39	Thomas C Wildermuth	1		
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1		
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	3	181080006A	04/18/2018 22:50	Kate E Lutte	1		
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1		
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1		
00111	Moisture	SM 2540 G-1997 %Moisture Calc	2	18086820005A	03/27/2018 23:25	Scott W Freisher	1		



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Sample Description: MW-2-S-8-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

 Project Name:
 90955

 Submittal Date/Time:
 03/23/2018 10:15

 Collection Date/Time:
 03/20/2018 10:50

Analysis Report

Chevron ELLE Sample #: SW 9520228 ELLE Group #: 1922999 Matrix: Soil

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CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
GC/MS	Volatiles	SW-846 8260)B	mg/kg	mg/kg		
10237	Benzene		71-43-2	0.004	0.0005	0.84	
10237	Ethylbenzene		100-41-4	0.002	0.001	0.84	
10237	Naphthalene		91-20-3	0.052	0.001	0.84	
10237	Toluene		108-88-3	0.003	0.001	0.84	
10237	Xylene (Total)		1330-20-7	0.003	0.001	0.84	
GC Vol	atiles	SW-846 8015	5B modified	mg/kg	mg/kg		
01725	TPH-GRO N. CA soil C6-0	C12	n.a.	98	5.5	212.22	
GC Mis	cellaneous	SW-846 8015	5B	mg/kg	mg/kg		
10941	TPH-DRO soil C10-C28 m		n.a.	45	5.2	1	
	The holding time was not data reported.						
GC Pet		SW-846 8015	5B modified	mg/kg	mg/kg		
	arbons						
02516	Total TPH		n.a.	200	13	1	
02516	TPH Motor Oil C16-C36		n.a.	200	13	1	
that o	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in	a range that include				
GC Pet		SW-846 8015	5B	mg/kg	mg/kg		
Hydroc	arbons w/Si						
02222	TPH-DRO soil C10-C28 w		n.a.	39	5.2	1	
	The reverse surrogate, ca The holding time was not data reported.						
Wet Ch	emistry	SM 2540 G-1	997	%	%		
1161 01	ionnioti y	%Moisture C					
00111	Moisture		n.a.	22.8	0.50	1	
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.						

Sample Comments

CA ELAP Lab Certification No. 2792

		Labo	oratory S	Sample Analysis	Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



Collection Date/Time:

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03/20/2018 10:50

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Analysis Report

Sample Description:	MW-2-S-8-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2	Chevron ELLE Sar ELLE Gro
Project Name:	90955	Matrix: S
Submittal Date/Time:	03/23/2018 10:15	

ample #: roup #: Soil

SW 9520228 1922999

		Labor	atory S	ample Analysis	Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	A180911AA	04/01/2018 16:24	Stephen C Nolte	0.84
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 10:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 10:50	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 10:50	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 06:07	Jeremy C Giffin	212.22
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 10:50	Client Supplied	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 04:25	Thomas C Wildermuth	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 21:50	Timothy M Emrick	1
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 22:32	Thomas C Wildermuth	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1



Project Name:

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Sample Description: MW-2-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 14:20

Analysis Report

Chevron ELLE Sample #: SW 9520229 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	B	mg/kg	mg/kg	
10237 10237 10237 10237 10237	Benzene Ethylbenzene Naphthalene Toluene Xylene (Total) rting limits were raised due		71-43-2 100-41-4 91-20-3 108-88-3 1330-20-7	N.D. N.D. 0.33 N.D. N.D. x.	0.029 0.058 0.058 0.058 0.058 0.058	51.02 51.02 51.02 51.02 51.02 51.02
GC Vo	latiles	SW-846 8015	B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-	C12	n.a.	87	4.5	198.41
GC Mis 10941	scellaneous TPH-DRO soil C10-C28 n The holding time was not data reported.		n.a.	mg/kg 56	mg/kg 4.6	1
	troleum carbons Total TPH TPH Motor Oil C16-C36	SW-846 8015	5B modified n.a. n.a.	mg/kg 40 40	mg/kg 11 11	1
that c	quantitation is based on pea of a hydrocarbon component -octane) through C40 (n-tet	t mix calibration in	a range that includ			
	troleum carbons w/Si	SW-846 8015	5B	mg/kg	mg/kg	
02222	TPH-DRO soil C10-C28 w The reverse surrogate, ca The holding time was not data reported.	pric acid, is preser		52	4.6	1
Wet Ch	nemistry	SM 2540 G-1 %Moisture C		%	%	
00111	Moisture Moisture represents the lo 103 - 105 degrees Celsius as-received basis.				0.50	1

Sample Comments

CA ELAP Lab Certification No. 2792



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Analysis Report

Sample Description:	MW-2-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520229 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 14:20		

		Labor	atory S	ample Analysis	Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237 06646	BTEX/Naphthalene - Soil GC/MS HL Bulk Sample Prep	SW-846 8260B SW-846 5035A Modified	1 1	Q180881AA 201808649321	03/29/2018 21:01 03/27/2018 09:14	Stephen C Nolte Anastasia K Jaynes	51.02 n.a.
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18089B34A	03/31/2018 06:45	Jeremy C Giffin	198.41
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201808649321	03/27/2018 09:14	Anastasia K Jaynes	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 04:05	Thomas C Wildermuth	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 21:07	Timothy M Emrick	1
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 22:52	Thomas C Wildermuth	1
11210 10942	DRO by 8015 Microwave w/ SG Microwave Extraction-DRO soils	SW-846 3546 SW-846 3546	1 1	180950002A 180950001A	04/05/2018 18:50 04/05/2018 18:50	Sally L Appleyard Sally L Appleyard	1 1
11218 00111	TPH Fuels Soils Extraction Moisture	SW-846 3550B SM 2540 G-1997 %Moisture Calc	1 1	180890013A 18086820001A	03/30/2018 18:20 03/27/2018 12:09	Sally L Appleyard Larry E Bevins	1 1



Project Name:

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Sample Description: MW-2-S-12-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 14:30

Analysis Report

Chevron ELLE Sample #: SW 9520230 ELLE Group #: 1922999 Matrix: Soil

Dry

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260)B	mg/kg	mg/kg	
10237	Benzene		71-43-2	N.D.	0.033	56.43
10237	Ethylbenzene		100-41-4	N.D.	0.066	56.43
10237	Naphthalene		91-20-3	2.0	0.066	56.43
10237	Toluene		108-88-3	N.D.	0.066	56.43
10237	Xylene (Total)		1330-20-7	N.D.	0.066	56.43
accep	ecovery for the sample surrout ance limits as noted on the ot available to repeat the an	e QC Summary. S				
GC Vol	atiles	SW-846 8015	B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-	C12	n.a.	510	19	827.81
	cellaneous	SW-846 8015	5B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 n		n.a.	140	4.6	1
	The holding time was not data reported.	met. The client wa	as notified and the			
GC Pet	roleum	SW-846 8015	B modified	mg/kg	mg/kg	
Hydroc	arbons					
02516	Total TPH		n.a.	140	12	1
02516	TPH Motor Oil C16-C36		n.a.	140	12	1
that o	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	t mix calibration in	a range that include			
GC Pet	roleum	SW-846 8015	5B	mg/kg	mg/kg	
Hydroc	arbons w/Si					
02222	TPH-DRO soil C10-C28 w	v/Si Gel	n.a.	130	4.6	1
	The holding time was not	met. The client wa	as notified and the			
	data reported.					
	The reverse surrogate, ca	pric acid, is preser	nt at 1.0%.			
Wet Ch	emistry	SM 2540 G-1	997	%	%	
Wet Of	lennistry	%Moisture C				
00111	Moisture			14.0	0.50	1
00111	Moisture represents the lo	ss in weight of the	n.a.		0.30	1
	103 - 105 degrees Celsius					
	as-received basis.					

Sample Comments

CA ELAP Lab Certification No. 2792



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Analysis Report

Sample Description:	MW-2-S-12-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520230 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 14:30		

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	Q180881AA	03/30/2018 00:09	Stephen C Nolte	56.43			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 14:30	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 14:30	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 14:30	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 06:45	Jeremy C Giffin	827.81			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 14:30	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 04:45	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 21:28	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 23:12	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1			



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Sample Description: MW-2-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 14:40

Analysis Report

Chevron ELLE Sample #: SW 9520231 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name	CAS N	Dry Imber Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0004	0.76
10237	Ethylbenzene	100-41-	4 N.D.	0.0009	0.76
10237	Naphthalene	91-20-3	N.D.	0.0009	0.76
10237	Toluene	108-88-	3 N.D.	0.0009	0.76
10237	Xylene (Total)	1330-20)-7 N.D.	0.0009	0.76
GC Vo	latiles	SW-846 8015B mod	lified mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6	-C12 n.a.	N.D.	0.4	18.09
GC Mis	scellaneous	SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28	microwave n.a.	N.D.	4.6	1
	The holding time was no data reported.	t met. The client was notifie	d and the		
GC Pe	troleum	SW-846 8015B mod	lified ^{mg/kg}	mg/kg	
Hydrod	carbons				
02516	Total TPH	n.a.	N.D.	11	1
02516	TPH Motor Oil C16-C36	n.a.	N.D.	11	1
that c	f a hydrocarbon componer	eak area comparison of the s nt mix calibration in a range t tracontane) normal hydroca	hat includes		
	troleum carbons w/Si	SW-846 8015B	mg/kg	mg/kg	
02222		w/Si Gel n.a. apric acid, is present at <1% t met. The client was notified		4.6	1
Wet Cl	nemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111	Moisture	n.a.	13.4	0.50	1
		loss in weight of the sample us. The moisture result repor			

Sample Comments

CA ELAP Lab Certification No. 2792

		Labo	ratory S	ample Analysis	Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



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Analysis Report

Sample Description:	MW-2-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520231 1922999	
Project Name:	90955			
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 14:40			
	Laboratory Sample Analysi	in Papard		

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 19:10	Jennifer K Howe	0.76	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 14:40	Client Supplied	1	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 14:40	Client Supplied	1	
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 01:41	Jeremy C Giffin	18.09	
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 14:40	Client Supplied	n.a.	
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/08/2018 23:44	Thomas C Wildermuth	1	
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 16:06	Timothy M Emrick	1	
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 23:32	Thomas C Wildermuth	1	
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1	
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1	
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1	

Page 22 of 58



Project Name:

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Sample Description: MW-3-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 13:30

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520232 1922999

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260)B	mg/kg	mg/kg	
10237	Benzene		71-43-2	N.D.	0.0008	1.34
10237	Ethylbenzene		100-41-4	N.D.	0.002	1.34
10237	Naphthalene		91-20-3	N.D.	0.002	1.34
10237	Toluene		108-88-3	N.D.	0.002	1.34
10237	Xylene (Total)		1330-20-7	N.D.	0.002	1.34
GC Vo	latiles	SW-846 801	5B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6- Reporting limits were rais		n.a. foaming.	N.D.	10	430.29
GC Mis	scellaneous	SW-846 8015	5B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 r The holding time was not data reported.		n.a. as notified and the	N.D.	4.8	1
GC Pe	troleum	SW-846 8015	5B modified	mg/kg	mg/kg	
Hydro	carbons					
02516	Total TPH		n.a.	N.D.	12	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.	12	1
that o	quantitation is based on pea of a hydrocarbon componen -octane) through C40 (n-tet	t mix calibration in	a range that include			
	troleum carbons w/Si	SW-846 801	5B	mg/kg	mg/kg	
02222	TPH-DRO soil C10-C28 v The reverse surrogate, ca The holding time was not data reported.	apric acid, is presei		N.D.	4.8	1
Wet Cl	nemistry	SM 2540 G-1 %Moisture C		%	%	
00111	Moisture Moisture represents the lo 103 - 105 degrees Celsiu: as-received basis.				0.50	1

Sample Comments

CA ELAP Lab Certification No. 2792



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Analysis Report

Sample Description:	MW-3-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520232 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 13:30		

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	A180872AA	03/29/2018 01:04	Stephen C Nolte	1.34	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 13:30	Client Supplied	1	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 13:30	Client Supplied	1	
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 08:00	Jeremy C Giffin	430.29	
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 13:30	Client Supplied	n.a.	
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 03:24	Thomas C Wildermuth	1	
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 20:02	Timothy M Emrick	1	
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 17:51	Thomas C Wildermuth	1	
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1	
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1	
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1	



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Sample Description: MW-3-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 13:40

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520233 1922999

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Lim	Dilutior it Factor	1
GC/MS	Volatiles	SW-846 8260)B	mg/kg	mg/kg		
10237	Benzene		71-43-2	N.D.	0.0004	0.73	
10237	Ethylbenzene		100-41-4	N.D.	0.0009	0.73	
10237	Naphthalene		91-20-3	N.D.	0.0009	0.73	
10237	Toluene		108-88-3	N.D.	0.0009	0.73	
10237	Xylene (Total)		1330-20-7	N.D.	0.0009	0.73	
GC Vo	latiles	SW-846 8015	5B modified	mg/kg	mg/kg		
01725	TPH-GRO N. CA soil C6-	C12	n.a.	N.D.	0.5	20.66	
GC Mis	scellaneous	SW-846 8015	5B	mg/kg	mg/kg		
10941	TPH-DRO soil C10-C28 n	nicrowave	n.a.	N.D.	4.7	1	
	The holding time was not data reported.	met. The client wa	as notified and the				
	troleum	SW-846 8015	B modified	mg/kg	mg/kg		
Hydrod	carbons						
02516	Total TPH		n.a.	N.D.	12	1	
02516	TPH Motor Oil C16-C36		n.a.	N.D.	12	1	
that c	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	t mix calibration in	a range that include				
GC Pe	troleum	SW-846 8015	5B	mg/kg	mg/kg		
Hydroo	carbons w/Si						
02222	TPH-DRO soil C10-C28 v	//Si Gel	n.a.	N.D.	4.7	1	
	The reverse surrogate, ca The holding time was not data reported.						
Wet Cl	nemistry	SM 2540 G-1 %Moisture C		%	%		
00111	Moisture		n.a.	14.9	0.50	1	
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.						

Sample Comments

CA ELAP Lab Certification No. 2792

		Labo	oratory S	ample Ana	lysis Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



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Analysis Report

Sample Description:	MW-3-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3	(E F
Project Name:	90955	ſ

Submittal Date/Time: Collection Date/Time: 03/23/2018 10:15 03/20/2018 13:40 Chevron ELLE Sample #: SW ELLE Group #: 1922 Matrix: Soil

SW 9520233 1922999

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	A180872AA	03/29/2018 01:27	Stephen C Nolte	0.73			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 13:40	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 13:40	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 13:40	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 02:19	Jeremy C Giffin	20.66			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 13:40	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 00:04	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 18:15	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 18:11	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1			



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Sample Description: MW-3-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 15:50

Analysis Report

Chevron ELLE Sample #: SW 9520234 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	B	mg/kg	mg/kg	
10237	Benzene		71-43-2	0.002	0.0004	0.71
10237	Ethylbenzene		100-41-4	0.001	0.0008	0.71
10237	Naphthalene		91-20-3	0.015	0.0008	0.71
10237	Toluene		108-88-3	0.0009	0.0008	0.71
10237	Xylene (Total)		1330-20-7	N.D.	0.0008	0.71
GC Vo	latiles	SW-846 8015	B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-	C12	n.a.	N.D.	0.6	24.13
GC Mis	scellaneous	SW-846 8015	B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 n		n.a.	N.D.	4.8	1
	The holding time was not data reported.		as notified and the			
GC Pe	troleum	SW-846 8015	B modified	mg/kg	mg/kg	
Hydroo	carbons					
02516	Total TPH		n.a.	N.D.	12	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.	12	1
that c	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	t mix calibration in	a range that include			
GC Pe	troleum	SW-846 8015	B	mg/kg	mg/kg	
Hydrod	carbons w/Si					
02222	TPH-DRO soil C10-C28 w	//Si Gel	n.a.	N.D.	4.8	1
	The reverse surrogate, ca The holding time was not data reported.					
Wet Cł	nemistry	SM 2540 G-1	997	%	%	
	ionioù y	%Moisture C				
00111	Moisture		n.a.	16.0	0.50	1
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.					

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		



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Analysis Report

SW 9520234 1922999

Sample Description:	MW-3-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil
Project Name:	90955	
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 15:50	

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 20:19	Jennifer K Howe	0.71			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 15:50	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 15:50	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18089B34A	03/31/2018 06:10	Jeremy C Giffin	24.13			
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201808649321	03/27/2018 09:16	Anastasia K Jaynes	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 00:24	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 19:19	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 18:31	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1			

Page 28 of 58



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Sample Description: MW-3-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3

 Project Name:
 90955

 Submittal Date/Time:
 03/23/2018 10:15

 Collection Date/Time:
 03/20/2018 16:00

Analysis Report

Chevron ELLE Sample #: SW 9520235 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 826	0B	mg/kg	mg/kg	
10237	Benzene		71-43-2	N.D.	0.0004	0.66
10237	Ethylbenzene		100-41-4	N.D.	0.0008	0.66
10237	Naphthalene		91-20-3	N.D.	0.0008	0.66
10237	Toluene		108-88-3	N.D.	0.0008	0.66
10237	Xylene (Total)		1330-20-7	N.D.	0.0008	0.66
GC Vo	latiles	SW-846 801	5B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C	6-C12	n.a.	N.D.	0.5	20.53
GC Mis	scellaneous	SW-846 801	5B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28		n.a.	N.D.	4.7	1
	The holding time was no data reported.		as notified and the			
GC Pet	troleum	SW-846 801	5B modified	mg/kg	mg/kg	
Hvdrod	arbons					
02516	Total TPH		n.a.	N.D.	12	1
02516	TPH Motor Oil C16-C36	5	n.a.	N.D.	12	1
that o	quantitation is based on p f a hydrocarbon compone -octane) through C40 (n-t	ent mix calibration in	a range that include			
	troleum carbons w/Si	SW-846 801	5B	mg/kg	mg/kg	
02222	TPH-DRO soil C10-C28 The reverse surrogate, The holding time was no data reported.	capric acid, is prese		N.D.	4.7	1
Wet Ch	nemistry	SM 2540 G-1 %Moisture 0		%	%	
00111	Moisture	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	n.a.	14.9	0.50	1
50111	Moisture represents the 103 - 105 degrees Cels as-received basis.		e sample after oven	drying at	0.00	·

Sample Comments

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Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	



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Analysis Report

Sample Description:	MW-3-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520235 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 16:00		

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 20:42	Jennifer K Howe	0.66	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 16:00	Client Supplied	1	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 16:00	Client Supplied	1	
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 02:57	Jeremy C Giffin	20.53	
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 16:00	Client Supplied	n.a.	
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 00:44	Thomas C Wildermuth	1	
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 16:27	Timothy M Emrick	1	
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 19:32	Thomas C Wildermuth	1	
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1	
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1	
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1	



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Sample Description: MW-4-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 11:30

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520236 1922999

CAT No.	Analysis Name	CAS Nu	Dry nber Result	Dry Method Detection Limit	Dilution Factor
GC/MS	S Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0005	0.92
10237	Ethylbenzene	100-41-4	N.D.	0.001	0.92
10237	Naphthalene	91-20-3	N.D.	0.001	0.92
10237	Toluene	108-88-3	N.D.	0.001	0.92
10237	Xylene (Total)	1330-20-	7 N.D.	0.001	0.92
GC Vo	latiles	SW-846 8015B modi	fied ^{mg/kg}	mg/kg	
01725	TPH-GRO N. CA soil C6	-C12 n.a.	N.D.	0.5	22.44
GC Mi	scellaneous	SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 The holding time was no data reported.	microwave n.a. t met. The client was notified	4.6 and the	4.2	1
GC Pe	troleum	SW-846 8015B modi	fied ^{mg/kg}	mg/kg	
Hydro	carbons				
02516	Total TPH	n.a.	N.D.	10	1
02516	TPH Motor Oil C16-C36	n.a.	N.D.	10	1
that o	of a hydrocarbon componer	eak area comparison of the sa nt mix calibration in a range th etracontane) normal hydrocart	at includes		
	troleum carbons w/Si	SW-846 8015B	mg/kg	mg/kg	
02222		w/Si Gel n.a. apric acid, is present at <1%. t met. The client was notified	N.D. and the	4.2	1
Wet Cl	hemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111		n.a. loss in weight of the sample a us. The moisture result reporte		0.50	1

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Labo	ratory S	ample Analysis	Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



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Analysis Report

SW 9520236

1922999

Sample Description:	MW-4-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil
Project Name:	90955	
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 11:30	

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 21:06	Jennifer K Howe	0.92			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 11:30	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 11:30	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 11:30	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 08:38	Jeremy C Giffin	22.44			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 11:30	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 03:44	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 19:41	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 19:52	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1			



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Sample Description: MW-4-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4

 Project Name:
 90955

 Submittal Date/Time:
 03/23/2018 10:15

 Collection Date/Time:
 03/20/2018 11:40

Analysis Report

Chevron ELLE Sample #: SW 9520237 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 826	0B	mg/kg	mg/kg	
10237	Benzene		71-43-2	N.D.	0.0005	0.91
10237	Ethylbenzene		100-41-4	N.D.	0.001	0.91
10237	Naphthalene		91-20-3	N.D.	0.001	0.91
10237	Toluene		108-88-3	N.D.	0.001	0.91
10237	Xylene (Total)		1330-20-7	N.D.	0.001	0.91
GC Vo	atiles	SW-846 801	5B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C	6-C12	n.a.	N.D.	0.5	23.41
GC Mis	scellaneous	SW-846 801	5B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28	3 microwave	n.a.	N.D.	4.3	1
	The holding time was n data reported.		as notified and the			
GC Pet	troleum	SW-846 801	5B modified	mg/kg	mg/kg	
Hvdroo	arbons					
02516	Total TPH		n.a.	N.D.	11	1
02516	TPH Motor Oil C16-C36	3	n.a.	N.D.	11	1
that o	quantitation is based on p f a hydrocarbon compone -octane) through C40 (n-i	ent mix calibration in	a range that include			
	roleum carbons w/Si	SW-846 801	5B	mg/kg	mg/kg	
02222	TPH-DRO soil C10-C28 The reverse surrogate, The holding time was n data reported.	capric acid, is prese		N.D.	4.3	1
Wet Ch	nemistry	SM 2540 G-1 %Moisture 0		%	%	
00111	Moisture		n.a.	7.8	0.50	1
20	Moisture represents the 103 - 105 degrees Cels as-received basis.		e sample after oven	drying at		

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		l	_aboratory S	Sample Analy	ysis Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



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Analysis Report

Sample Description:	MW-4-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4	Chevron ELLE Sample ELLE Group #
Project Name:	90955	Matrix: Soil

Submittal Date/Time: Collection Date/Time: 03/23/2018 10:15 03/20/2018 11:40

ELLE Sample #: ELLE Group #:

SW 9520237 1922999

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 21:29	Jennifer K Howe	0.91			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 11:40	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 11:40	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 11:40	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 04:13	Jeremy C Giffin	23.41			
06647	GC-5q Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 11:40	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 03:04	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 16:49	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 20:12	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1			



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90955

Sample Description: MW-4-S-10-180321 Grab Soil Facility# 90955 BBLW

1200 Park St-Alameda NA MW-4

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/21/2018 08:15

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520238 1922999

CAT No.	Analysis Name	CAS	S Number	Dry Result	N	Dry lethod letection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B		mg/kg	m	ng/kg	
10237	Benzene	71-4	43-2	N.D.	0	.0004	0.68
10237	Ethylbenzene	100)-41-4	N.D.	0	.0008	0.68
10237	Naphthalene			N.D.		.0008	0.68
10237	Toluene			N.D.		.0008	0.68
10237	Xylene (Total)	133	80-20-7	N.D.	0	.0008	0.68
GC Vo	latiles	SW-846 8015B n	nodified	mg/kg	n	ng/kg	
01725	TPH-GRO N. CA soil	C6-C12 n.a.		N.D.	0	.4	17.66
GC Mis	scellaneous	SW-846 8015B		mg/kg	m	ng/kg	
10941	TPH-DRO soil C10-C The holding time was data reported.	28 microwave n.a. not met. The client was no		N.D.	4	.8	1
GC Pet	troleum	SW-846 8015B n	nodified	mg/kg	m	ng/kg	
Hvdroo	carbons						
02516	Total TPH	n.a.		N.D.	1	2	1
02516	TPH Motor Oil C16-C	36 n.a.		N.D.	1	2	1
that c	f a hydrocarbon compo	peak area comparison of the nent mix calibration in a ran n-tetracontane) normal hydr	nge that includes				
	troleum carbons w/Si	SW-846 8015B		mg/kg	n	ng/kg	
02222		28 w/Si Gel n.a. e, capric acid, is present at e not met. The client was no	<1%.	N.D.	4	.8	1
Wet Ch	nemistry	SM 2540 G-1997 %Moisture Calc		%	%	, D	
00111		n.a. he loss in weight of the sam Isius. The moisture result re	ple after oven d	16.2 rying at	0	.50	1

Sample Comments

CA ELAP Lab Certification No. 2792

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		L	aboratory S	ample Analy	/sis Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



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Analysis Report

SW 9520238 1922999

Sample Description:	MW-4-S-10-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil
Project Name:	90955	
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/21/2018 08:15	

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 21:52	Jennifer K Howe	0.68			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/21/2018 08:15	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/21/2018 08:15	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/21/2018 08:15	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 04:51	Jeremy C Giffin	17.66			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/21/2018 08:15	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 02:44	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 17:10	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 20:33	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1			

Page 36 of 58



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90955

Sample Description: MW-4-S-15-180321 Grab Soil Facility# 90955 BBLW

1200 Park St-Alameda NA MW-4

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/21/2018 08:35

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

Dry

SW 9520239 1922999

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	В	mg/kg	mg/kg	
10237	Benzene		71-43-2	N.D.	0.0004	0.73
10237	Ethylbenzene		100-41-4	N.D.	0.0009	0.73
10237	Naphthalene		91-20-3	N.D.	0.0009	0.73
10237	Toluene		108-88-3	N.D.	0.0009	0.73
10237	Xylene (Total)		1330-20-7	N.D.	0.0009	0.73
GC Vo	latiles	SW-846 8015	B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-0	C12	n.a.	N.D.	0.5	20.39
GC Mid	scellaneous	SW-846 8015	B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 m		n.a.	N.D.	4.8	1
10041	The holding time was not data reported.			N.D.	4.0	
GC Pet	troleum	SW-846 8015	B modified	mg/kg	mg/kg	
Hydrod	arbons					
02516	Total TPH		n.a.	N.D.	12	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.	12	1
that c	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in a	a range that include			
GC Pet	troleum	SW-846 8015	В	mg/kg	mg/kg	
Hydrod	arbons w/Si					
02222	TPH-DRO soil C10-C28 w		n.a.	N.D.	4.8	1
	The reverse surrogate, ca The holding time was not data reported.					
Wet Ch	nemistry	SM 2540 G-1	997	%	%	
	······································	%Moisture C				
00111	Moisture		n.a.	17.5	0.50	1
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.					

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		



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Sample Description:	MW-4-S-15-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520239 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/21/2018 08:35		

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 22:15	Jennifer K Howe	0.73			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/21/2018 08:35	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/21/2018 08:35	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 05:29	Jeremy C Giffin	20.39			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/21/2018 08:35	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 01:44	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 17:32	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 20:52	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1			

Page 38 of 58



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Sample Description: HA-1-S-3-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA HA-1

Project Name: 90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/21/2018 10:02

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520240 1922999

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg		
10724	Acenaphthene	83-32-9	N.D.	0.004	1	
10724	Acenaphthylene	208-96-8	N.D.	0.004	1	
10724	Anthracene	120-12-7	N.D.	0.004	1	
10724	Benzo(a)anthracene	56-55-3	0.004	0.004	1	
10724	Benzo(a)pyrene	50-32-8	0.005	0.004	1	
10724	Benzo(b)fluoranthene	205-99-2	0.006	0.004	1	
10724	Benzo(g,h,i)perylene	191-24-2	0.007	0.004	1	
10724	Benzo(k)fluoranthene	207-08-9	0.005	0.004	1	
10724	Chrysene	218-01-9	0.007	0.004	1	
10724	Dibenz(a,h)anthracene	53-70-3	0.004	0.004	1	
10724	Fluoranthene	206-44-0	0.005	0.004	1	
10724	Fluorene	86-73-7	N.D.	0.004	1	
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.005	0.004	1	
10724	Naphthalene	91-20-3	N.D.	0.004	1	
10724	Phenanthrene	85-01-8	N.D.	0.004	1	
10724	Pyrene	129-00-0	0.006	0.004	1	
Wet Ch	emistry	SM 2540 G-1997 %Moisture Calc	%	%		
00111		n.a. oss in weight of the sample after over is. The moisture result reported is on		0.50	1	

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10724	PAH's 8270C Soil	SW-846 8270C	1	18085SLB026	03/27/2018 07:20	Anthony P Bauer	1	
10814	BNA Soil Microwave PAH	SW-846 3546	1	18085SLB026	03/26/2018 17:00	Elizabeth E Donovan	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1	



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Sample Description: HA-1-S-8-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA HA-1

90955

 Submittal Date/Time:
 03/23/2018 10:15

 Collection Date/Time:
 03/21/2018 10:05

Analysis Report

Chevron ELLE Sample #: SW 9520241 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg		
10724	Acenaphthene	83-32-9	N.D.	0.004	1	
10724	Acenaphthylene	208-96-8	N.D.	0.004	1	
10724	Anthracene	120-12-7	N.D.	0.004	1	
10724	Benzo(a)anthracene	56-55-3	N.D.	0.004	1	
10724	Benzo(a)pyrene	50-32-8	N.D.	0.004	1	
10724	Benzo(b)fluoranthene	205-99-2	0.004	0.004	1	
10724	Benzo(g,h,i)perylene	191-24-2	0.004	0.004	1	
10724	Benzo(k)fluoranthene	207-08-9	0.004	0.004	1	
10724	Chrysene	218-01-9	0.004	0.004	1	
10724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.004	1	
10724	Fluoranthene	206-44-0	N.D.	0.004	1	
10724	Fluorene	86-73-7	N.D.	0.004	1	
10724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.004	1	
10724	Naphthalene	91-20-3	N.D.	0.004	1	
10724	Phenanthrene	85-01-8	N.D.	0.004	1	
10724	Pyrene	129-00-0	N.D.	0.004	1	
Wet Ch	emistry	SM 2540 G-1997 %Moisture Calc	%	%		
00111		n.a. oss in weight of the sample after over us. The moisture result reported is on		0.50	1	

Sample Comments

CA ELAP Lab Certification No. 2792

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	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10724	PAH's 8270C Soil	SW-846 8270C	1	18085SLB026	03/27/2018 07:44	Anthony P Bauer	1	
10814	BNA Soil Microwave PAH	SW-846 3546	1	18085SLB026	03/26/2018 17:00	Elizabeth E Donovan	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1	



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Sample Description: HA-2-S-3-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA HA-2

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/21/2018 10:00

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520242 1922999

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg		
10724	Acenaphthene	83-32-9	N.D.	0.004	1	
10724	Acenaphthylene	208-96-8	N.D.	0.004	1	
10724	Anthracene	120-12-7	N.D.	0.004	1	
10724	Benzo(a)anthracene	56-55-3	0.005	0.004	1	
10724	Benzo(a)pyrene	50-32-8	0.007	0.004	1	
10724	Benzo(b)fluoranthene	205-99-2	0.011	0.004	1	
10724	Benzo(g,h,i)perylene	191-24-2	0.009	0.004	1	
10724	Benzo(k)fluoranthene	207-08-9	0.006	0.004	1	
10724	Chrysene	218-01-9	0.011	0.004	1	
10724	Dibenz(a,h)anthracene	53-70-3	0.005	0.004	1	
10724	Fluoranthene	206-44-0	0.009	0.004	1	
10724	Fluorene	86-73-7	N.D.	0.004	1	
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.007	0.004	1	
10724	Naphthalene	91-20-3	0.005	0.004	1	
10724	Phenanthrene	85-01-8	0.011	0.004	1	
10724	Pyrene	129-00-0	0.011	0.004	1	
Wet Ch	emistry	SM 2540 G-1997 %Moisture Calc	%	%		
00111		n.a. oss in weight of the sample after over is. The moisture result reported is on		0.50	1	

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10724	PAH's 8270C Soil	SW-846 8270C	1	18085SLB026	03/27/2018 08:08	Anthony P Bauer	1	
10814	BNA Soil Microwave PAH	SW-846 3546	1	18085SLB026	03/26/2018 17:00	Elizabeth E Donovan	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1	



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Sample Description: HA-2-S-8-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA HA-2

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/21/2018 10:10

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520243 1922999

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg		
10724	Acenaphthene	83-32-9	N.D.	0.004	1	
10724	Acenaphthylene	208-96-8	N.D.	0.004	1	
10724	Anthracene	120-12-7	N.D.	0.004	1	
10724	Benzo(a)anthracene	56-55-3	0.004	0.004	1	
10724	Benzo(a)pyrene	50-32-8	0.005	0.004	1	
10724	Benzo(b)fluoranthene	205-99-2	0.006	0.004	1	
10724	Benzo(g,h,i)perylene	191-24-2	0.007	0.004	1	
10724	Benzo(k)fluoranthene	207-08-9	0.005	0.004	1	
10724	Chrysene	218-01-9	0.011	0.004	1	
10724	Dibenz(a,h)anthracene	53-70-3	0.004	0.004	1	
10724	Fluoranthene	206-44-0	0.006	0.004	1	
10724	Fluorene	86-73-7	N.D.	0.004	1	
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.004	0.004	1	
10724	Naphthalene	91-20-3	0.016	0.004	1	
10724	Phenanthrene	85-01-8	0.007	0.004	1	
10724	Pyrene	129-00-0	0.007	0.004	1	
Wet Ch	emistry	SM 2540 G-1997 %Moisture Calc	%	%		
00111		n.a. oss in weight of the sample after ove is. The moisture result reported is on		0.50	1	

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
10724	PAH's 8270C Soil	SW-846 8270C	1	18085SLB026	03/27/2018 08:32	Anthony P Bauer	1				
10814	BNA Soil Microwave PAH	SW-846 3546	1	18085SLB026	03/26/2018 17:00	Elizabeth E Donovan	1				
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1				



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Quality Control Summary

Client Name: Chevron Reported: 04/25/2018 17:07 Group Number: 1922999

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Result	MDL
mg/kg Sample number(N.D. N.D. N.D. N.D. N.D.	mg/kg s): 9520232-9520233 0.0005 0.001 0.001 0.001 0.001
Sample number(N.D. N.D. N.D. N.D. N.D.	s): 9520228 0.0005 0.001 0.001 0.001 0.001 0.001
Sample number(N.D. N.D. N.D. N.D. N.D. N.D.	s): 9520229-9520230 0.025 0.050 0.050 0.050 0.050 0.050
Sample number(N.D. N.D. N.D. N.D. N.D.	s): 9520222-9520227,9520231,9520234-9520239 0.0005 0.001 0.001 0.001 0.001 0.001
Sample number(N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D	s): 9520240-9520243 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003
	mg/kg Sample number(N.D. N.D. N.D. N.D. N.D. N.D. N.D. N.D

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Chevron Reported: 04/25/2018 17:07 Group Number: 1922999

Method Blank (continued)

Analysis Name	Result mg/kg	MDL mg/kg
Indeno(1,2,3-cd)pyrene Naphthalene Phenanthrene Pyrene	N.D. N.D. N.D. N.D.	0.003 0.003 0.003 0.003 0.003
Batch number: 18085A16A	Sample number(s): 9520222-9520228,9520230-9520233,9520235-9520239
TPH-GRO N. CA soil C6-C12	N.D.	0.5
Batch number: 18089B34A	Sample number(s): 9520229,9520234
TPH-GRO N. CA soil C6-C12	N.D.	0.5
Batch number: 180950001A	Sample number(s): 9520222-9520239
TPH-DRO soil C10-C28 microwave	N.D.	4.0
Batch number: 180890013A	Sample number(s): 9520222-9520239
Total TPH	N.D.	10
TPH Motor Oil C16-C36	N.D.	10
Batch number: 180950002A	Sample number(s): 9520222-9520239
TPH-DRO soil C10-C28 w/Si Gel	N.D.	4.0
Batch number: 181080006A	Sample number(s): 9520227
TPH-DRO soil C10-C28 w/Si Gel	N.D.	4.0

LCS/LCSD

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: A180872AA	Sample number	(s): 9520232-9	520233						
Benzene	0.0200	0.0190	0.0200	0.0189	95	94	80-120	1	30
Ethylbenzene	0.0200	0.0188	0.0200	0.0188	94	94	74-120	0	30
Naphthalene	0.0200	0.0140	0.0200	0.0142	70	71	46-136	1	30
Toluene	0.0200	0.0193	0.0200	0.0194	97	97	80-120	0	30
Xylene (Total)	0.0600	0.0550	0.0600	0.0551	92	92	75-120	0	30
Batch number: A180911AA	Sample number	(s): 9520228							
Benzene	0.0200	0.0188	0.0200	0.0190	94	95	80-120	1	30
Ethylbenzene	0.0200	0.0190	0.0200	0.0193	95	96	74-120	1	30
Naphthalene	0.0200	0.0176	0.0200	0.0171	88	86	46-136	3	30
Toluene	0.0200	0.0195	0.0200	0.0196	97	98	80-120	1	30
Xylene (Total)	0.0600	0.0567	0.0600	0.0568	94	95	75-120	0	30
Batch number: Q180881AA	Sample number	(s): 9520229-9	520230						
Benzene	1.00	1.01	1.00	0.975	101	98	80-120	4	30
Ethylbenzene	1.00	0.976	1.00	0.972	98	97	74-120	0	30

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Chevron Reported: 04/25/2018 17:07 Group Number: 1922999

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Naphthalene	1.00	1.01	1.00	0.823	101	82	46-136	20	30
Toluene	1.00	0.964	1.00	1.01	96	101	80-120	5	30
Xylene (Total)	3.00	2.95	3.00	2.91	98	97	75-120	1	30
Batch number: X180871AA	Sample number	(s): 9520222-9	520227,9520231,	9520234-952	0239				
Benzene	0.0200	0.0188			94		80-120		
Ethylbenzene	0.0200	0.0189			94		74-120		
Naphthalene	0.0200	0.0185			92		46-136		
Toluene	0.0200	0.0194			97		80-120		
Xylene (Total)	0.0600	0.0561			93		75-120		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 18085SLB026	Sample number	(s): 9520240-9	520243						
Acenaphthene	1.67	1.69			101		78-119		
Acenaphthylene	1.67	1.77			106		45-149		
Anthracene	1.67	1.65			99		82-113		
Benzo(a)anthracene	1.67	1.55			93		76-119		
Benzo(a)pyrene	1.67	1.66			100		77-112		
Benzo(b)fluoranthene	1.67	1.55			93		78-120		
Benzo(g,h,i)perylene	1.67	1.47			88		76-111		
Benzo(k)fluoranthene	1.67	1.74			104		78-119		
Chrysene	1.67	1.55			93		78-115		
Dibenz(a,h)anthracene	1.67	1.55			93		79-117		
Fluoranthene	1.67	1.63			98		76-115		
Fluorene	1.67	1.62			97		80-112		
Indeno(1,2,3-cd)pyrene	1.67	1.49			90		78-113		
Naphthalene	1.67	1.60			96		81-111		
Phenanthrene	1.67	1.63			98		81-109		
Pyrene	1.67	1.61			97		80-107		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 18085A16A	Sample number	(s): 9520222-9	520228,9520230-	9520233,952	0235-95202	39			
TPH-GRO N. CA soil C6-C12	11	8.51	11	8.12	77	74	61-135	5	30
Batch number: 18089B34A	Sample number	(s): 9520229,9	520234						
TPH-GRO N. CA soil C6-C12	11	8.41	11	8.39	76	76	61-135	0	30
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 180950001A	Sample number	(s): 9520222-9	520239						
TPH-DRO soil C10-C28 microwave	134	127.06			95		74-117		
	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 180890013A	Sample number	(s): 9520222-9	520239						
Total TPH	134	115.07			86		64-122		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Chevron Reported: 04/25/2018 17:07 Group Number: 1922999

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/kg	LCS Conc mg/kg	LCSD Spike Added mg/kg	LCSD Conc mg/kg	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: 180950002A TPH-DRO soil C10-C28 w/Si Gel	Sample number(134	s): 9520222-9 126.03	520239		94		59-120		
Batch number: 181080006A TPH-DRO soil C10-C28 w/Si Gel	Sample number(134	s): 9520227 121.7			91		59-120		
	%	%	%	%					
Batch number: 18082820004A Moisture	Sample number(89.5	s): 9520230-9 89.45	9520238		100		99-101		
Batch number: 18082820004B Moisture	Sample number(89.5	s): 9520222-9 89.45	520226,9520228		100		99-101		
Batch number: 18085820005B Moisture	Sample number(89.5	s): 9520239-9 89.4	9520243		100		99-101		
Batch number: 18086820001A Moisture	Sample number(89.5	s): 9520229 89.37			100		99-101		
Batch number: 18086820005A Moisture	Sample number(89.5	s): 9520227 89.42			100		99-101		

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: Q180881AA	Sample number(s): 9520229-9520230 UNSPK: P520252									
Benzene	0.0428	0.776	0.874	0.833	0.935	107	107	80-120	7	30
Ethylbenzene	0.268	0.776	1.02	0.833	1.18	97	110	74-120	15	30
Naphthalene	0.547	0.776	1.10	0.833	1.36	72	98	46-136	21	30
Toluene	N.D.	0.776	0.873	0.833	0.951	112	114	80-120	9	30
Xylene (Total)	0.429	2.33	2.87	2.50	3.25	105	113	75-120	12	30
Batch number: X180871AA	Sample numbe	r(s): 9520222-	9520227,9	520231,9520234	-9520239 L	JNSPK: P52	20265			
Benzene	0.000766	0.0148	0.0152	0.0142	0.0154	98	103	80-120	1	30
Ethylbenzene	N.D.	0.0148	0.0146	0.0142	0.0152	99	107	74-120	4	30
Naphthalene	N.D.	0.0148	0.0136	0.0142	0.0103	92	72	46-136	28	30
Toluene	N.D.	0.0148	0.0152	0.0142	0.0159	103	112	80-120	5	30
Xylene (Total)	N.D.	0.0443	0.0435	0.0426	0.0443	98	104	75-120	2	30

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Chevron
Reported: 04/25/2018 17:07

Group Number: 1922999

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

Analysis Name	Unspiked Conc mg/kg	MS Spike Added mg/kg	MS Conc mg/kg	MSD Spike Added mg/kg	MSD Conc mg/kg	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: 18085SLB026	Sample numbe	er(s): 9520240-	9520243 U	NSPK: P517932						
Acenaphthene	N.D.	1.65	1.59	1.64	1.61	97	98	78-119	1	30
Acenaphthylene	N.D.	1.65	1.68	1.64	1.69	102	103	45-149	1	30
Anthracene	N.D.	1.65	1.55	1.64	1.57	94	95	82-113	1	30
Benzo(a)anthracene	N.D.	1.65	1.40	1.64	1.42	85	86	76-119	2	30
Benzo(a)pyrene	N.D.	1.65	1.43	1.64	1.45	87	88	77-112	2	30
Benzo(b)fluoranthene	N.D.	1.65	1.44	1.64	1.34	87	82	78-120	7	30
Benzo(g,h,i)perylene	N.D.	1.65	1.34	1.64	1.33	81	81	76-111	0	30
Benzo(k)fluoranthene	N.D.	1.65	1.36	1.64	1.52	83	92	78-119	11	30
Chrysene	N.D.	1.65	1.36	1.64	1.43	82	87	78-115	5	30
Dibenz(a,h)anthracene	N.D.	1.65	1.45	1.64	1.45	88	88	79-117	0	30
Fluoranthene	N.D.	1.65	1.39	1.64	1.44	84	88	76-115	4	30
Fluorene	N.D.	1.65	1.50	1.64	1.55	91	94	80-112	3	30
Indeno(1,2,3-cd)pyrene	N.D.	1.65	1.37	1.64	1.37	83	83	78-113	0	30
Naphthalene	N.D.	1.65	1.51	1.64	1.52	91	93	81-111	1	30
Phenanthrene	N.D.	1.65	1.52	1.64	1.54	92	94	81-109	1	30
Pyrene	N.D.	1.65	1.47	1.64	1.50	89	91	80-107	2	30
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 180950001A	Sample numbe	er(s): 9520222-	9520239 U	NSPK: 9520239						
TPH-DRO soil C10-C28 microwave	N.D.	134	151.92			113		74-117		
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 180890013A	Sample numbe	er(s): 9520222-	9520239 U	NSPK: 9520233						
Total TPH	N.D.	133	52.6	133	53.62	40*	40*	64-122	2	20
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg					
Batch number: 180950002A	Sample numbe	er(s): 9520222-	9520239 U	NSPK: 9520239						
TPH-DRO soil C10-C28 w/Si Gel	N.D.	134	148.57			111		59-120		
Batch number: 181080006A TPH-DRO soil C10-C28 w/Si Gel	Sample numbe N.D.	er(s): 9520227 134	UNSPK: 95 102.19	520227		76		59-120		

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc	DUP Conc	DUP RPD	DUP RPD Max			
	mg/kg	mg/kg					
Batch number: 180950001A	Sample number(s): 95202	Sample number(s): 9520222-9520239 BKG: 9520239					

*- Outside of specification

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(2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Chevron	
Reported: 04/25/2018 17:07	

Group Number: 1922999

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	BKG Conc mg/kg	DUP Conc mg/kg	DUP RPD	DUP RPD Max
TPH-DRO soil C10-C28 microwave	N.D.	N.D.	0 (1)	20
	mg/kg	mg/kg		
Batch number: 180950002A	Sample number(s): 95202	22-9520239 BKG: 952	0239	
TPH-DRO soil C10-C28 w/Si Gel	N.D.	4.25	200* (1)	20
Batch number: 181080006A	Sample number(s): 95202	27 BKG: 9520227		
TPH-DRO soil C10-C28 w/Si Gel	N.D.	N.D.	0 (1)	20
	%	%		
Batch number: 18082820004A	Sample number(s): 95202	30-9520238 BKG: P51	18101	
Moisture	15.55	15.45	1	5
Batch number: 18082820004B	Sample number(s): 95202	22-9520226,9520228	BKG: P518108	
Moisture	11.27	12.02	6*	5
Batch number: 18085820005B	Sample number(s): 95202	39-9520243 BKG: P52	20220	
Moisture	20.47	20.81	2	5
Batch number: 18086820001A	Sample number(s): 95202	29 BKG: P523114		
Moisture	30.74	26.52	15*	5
Batch number: 18086820005A	Sample number(s): 95202	27 BKG: 9520227		
Moisture	11.07	11.1	0	5

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/Naphthalene - Soil Batch number: A180872AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9520232	112	102	104	91
9520233	113	101	101	100
Blank	111	99	100	100
LCS	107	99	106	111
LCSD	107	95	107	111
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/Naphthalene - Soil Batch number: A180911AA

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Chevron	
Reported: 04/25/2018 17:07	

Group Number: 1922999

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: BTEX/Naphthalene - Soil Batch number: A180911AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9520228	105	104	114	119
Blank	106	99	101	103
LCS	106	100	105	109
LCSD	104	96	106	108
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/Naphthalene - Soil

Batch	number:	Q180881AA
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	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9520229	98	101	95	98
9520230	150*	159*	161*	170*
Blank	111	112	109	98
LCS	127	115	107	100
LCSD	113	113	111	102
MS	72	72	70	70
MSD	77	77	77	72
Limits:	50-141	54-135	52-141	50-131

Analysis Name: BTEX/Naphthalene - Soil

Batch number: X180871AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
9520222	100	106	104	100
9520223	99	103	103	100
9520224	99	105	102	100
9520225	98	105	104	98
9520226	99	102	107	92
9520227	99	103	104	96
9520231	97	103	104	104
9520234	99	105	104	105
9520235	99	105	104	98
9520236	100	106	104	94
9520237	99	104	104	97
9520238	99	106	103	97
9520239	99	104	104	97
Blank	98	98	104	100
LCS	98	100	105	104
MS	99	106	105	105
MSD	96	97	109	101
Limits:	50-141	54-135	52-141	50-131

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Chevron
Reported: 04/25/2018 17:07

Group Number: 1922999

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: PAH's 8270C Soil Batch number: 18085SLB026						
	Nitrobenzene-d5	2-Fluorobiphenyl	Terphenyl-d14			
9520240	86	90	91			
9520241	85	89	90			
9520242	89	93	93			
9520243	90	92	91			
Blank	90	92	96			
LCS	94	93	95			
MS	89	88	90			
MSD	90	89	91			
Limits:	49-118	57-116	55-118			

Analysis Name: TPH-GRO N. CA soil C6-C12 Batch number: 18085A16A

	Trifluorotoluene-F
9520222	89
9520223	84
9520224	78
9520225	72
9520226	96
9520227	78
9520228	94
9520230	138
9520231	77
9520232	107
9520233	80
9520235	92
9520236	80
9520237	73
9520238	75
9520239	89
Blank	92
LCS	92
LCSD	88
Limits:	50-142

Analysis Name: TPH-GRO N. CA soil C6-C12 Batch number: 18089B34A

	I rifluorotoluene-F		
9520229	104		
9520234	80		
Blank	94		

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

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Quality Control Summary

Client Name: Chevron	
Reported: 04/25/2018 17:07	

Group Number: 1922999

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-GRO N. CA soil C6-C12 Batch number: 18089B34A Trifluorotoluene-F

LCS 93 LCSD 92

Limits: 50-142

Analysis Name: TPH Fuels by GC (Soils) Batch number: 180890013A

Baton nambon.	100000010/1	
	Chlorobenzene	Orthoterphenyl
9520222	104	106
9520223	106	105
9520224	97	94
9520225	95	107
9520226	103	97
9520227	94	99
9520228	108	91
9520229	115	107
9520230	99	99
9520231	102	102
9520232	84	92
9520233	100	105
9520234	93	96
9520235	100	106
9520236	96	103
9520237	91	94
9520238	102	101
9520239	105	112
Blank	102	101
LCS	104	99
MS	99	99
MSD	104	98
Limits:	58-129	50-126

Analysis Name: TPH-DRO soil C10-C28 microwave Batch number: 180950001A Orthotembervl

	Orthoterphenyi
9520222	99
9520223	92
9520224	95
9520225	95
9520226	97
9520227	98

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Chevron Reported: 04/25/2018 17:07 Group Number: 1922999

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-DRO soil C10-C28 microwave Batch number: 180950001A

	Orthoterphenyl
9520228	94
9520229	91
9520230	96
9520231	91
9520232	88
9520233	90
9520234	88
9520235	92
9520236	100
9520237	92
9520238	91
9520239	78
Blank	98
DUP	94
LCS	97
MS	115
Limits:	55-135

Analysis Name: TPH-DRO soil C10-C28 w/Si Gel Batch number: 180950002A Orthoterphenyl

	Orthoterphenyi
9520222	100
9520223	78
9520224	104
9520225	94
9520226	95
9520227	98
9520228	96
9520229	95
9520230	97
9520231	99
9520232	90
9520233	101
9520234	86
9520235	95
9520236	100
9520237	97
9520238	90
9520239	79
Blank	95
DUP	84

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.



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Quality Control Summary

Client Name: Chevron Reported: 04/25/2018 17:07 Group Number: 1922999

Surrogate Quality Control (continued)

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: TPH-DRO soil C10-C28 w/Si Gel Batch number: 180950002A Orthoterphenyl LCS 101

 MS
 117

 Limits:
 37-127

Analysis Name: TPH-DRO soil C10-C28 w/Si Gel Batch number: 181080006A

	Orthoterphenyl
9520227RE	94
Blank	109
DUP	98
LCS	100
MS	90
Limits:	37-127

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

ا مرح Chevron California Region Analysis Request/Chain of Custody	Californ	nia	Regi	on A	Inal	ysi	s R	edi	ves	t/Chai	n of Cu	of 2 ustody	
🐝 eurofins Lancaster Laboratories	032218 Acot # 11964	# 110	lou	Group #	COLLANCAS	ter Labor e side corre	atories us Sample	te CUIY #	<u>2020</u>	Group # For Lancaster Laboratories use CNS 2020 -43 Group # COSCACA Sample # CNS 2020 -43 Instructions on reverse side correspond with circled numbers.			
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The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client.

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issued by Dept. 40 Management ດ <u> Chevron California Region Analysis Request/Chain of Custody</u> oxy's on highest hit ۶
 8021 MTBE Confirmation

 Confirm highest hit by 8260

 Confirm all hits by 8260

 Run ______oxy's on highest his
 1010 Must meet lowest detection ☐ Results in Dry Weight ☐ J value reporting needed lime Time limits possible for 8260 Remarks 3/23/18 Yes/ compounds SCR #: m Date 6 Custody Seals Intact? Group # PG Lapcaster Laboratories use only 2020 - 43 Instructions on reverse side correspond with circled numbers. Lancaster Laboratories, Inc. • 2425 New H**대ଅପ୍ରሪ ଅଞ୍ଚିର, ዕ**ቶጭን PA 17601 • 717-656-2300 The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client. R ď 7 Q Analyses Requested Received by seceive@/by Receiventhy bonteM Dissolved Lead Dethod bsel lstol Oxygenates SZUMUS (638 0671 8260 Full Scan ပ္စ , o ime Silica Gel Cleanup 3/12/12 TPH 8015 MOD DRO Other Temperature Upon Receipt ()).{\u0] тен еко///08015.2 Z Q X 0928 Q 12 2 + XAT8 2 X 0978 S021 U 7 Z Date 2 Relinquished by Commerical Carrier FedEx __ Total Number of Containers Alvares ٦İA I!O \square 20 Matrix \Box Surface \square NPDES Water Ground \square Potable Acct. # 1964 XQQQ Kadle R R 2 2 Ŕ **Jnemibe**S lioS 4 Relinguished by Relinquished by UPS Composite Grab 0835 0101 037718-01 1002 Time 8 130 0h! ! 3/21/18 0815 000 00m/ [4]/02/cj Data Package Options (please circle if required) C)SHD Collected Turnaround Time Requested (TAT) (please circle) ead Consultan atherene Szymancuski 31/02/2 Type VI (Raw Data) 24 hour Date 4 day 7 WBS > S STUP OPS Client Information Alameda -20180321 MW-4-5-10-20130321 2013032 Laboratories MW-45-3-20180320 -20190320 - 20180321 Corrigen MW-3-5-15-20100320 2018 03 21 - 20(8032) Lancaster 48 hour 5 day Arcadis 909SS Park St. 010 Sample Identification Type I - Full 🐝 eurofins NW-4-5-19 -2-8 2 MW-4-S-9 HA-1-S-8 3 Kevin Standard 72 hour onsultant Project Mgr. ŝ S-1-0H onsultant Phone Consultant/Office Ņ 200 5 Chevron PM Site Address Sampler acility # 4 6 2

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Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 211720

Client: CA Office

	Deliv	very and F	Receipt Information		
Delivery Method:	BASC		Arrival Timestamp:	<u>03/23/2018 1</u>	0:15
Number of Packages:	<u>3</u>		Number of Projects:	<u>3</u>	
State/Province of Origin:	<u>CA</u>				
	Ar	rival Cond	dition Summary		
Shipping Container Sealed:		Yes	Sample IDs on COC m	natch Containers:	Yes
Custody Seal Present:		Yes	Sample Date/Times m	atch COC:	Yes
Custody Seal Intact:		Yes	VOA Vial Headspace	≥ 6mm:	N/A
Samples Chilled:		Yes	Total Trip Blank Qty:		0
Paperwork Enclosed:		Yes	Air Quality Samples Pr	resent:	No
Samples Intact:		Yes			
Missing Samples:		No			
Extra Samples:		No			
Discrepancy in Container Q	ty on COC:	No			

Unpacked by Wyatt Shiffler (12792) at 14:52 on 03/23/2018

Th	Samples Chilled Details Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp)										
,,,	ernometer rype	3. DI – Digi	ital (Tomp. Dott	0) // //	initaloa (oai		All Temperatures in °C.				
Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?				
1	DT42-02	1.6	DT	Wet	Y	Bagged	Ν				
2	DT42-02	0.6	DT	Wet	Y	Bagged	Ν				
3	DT42-02	0.9	DT	Wet	Y	Bagged	Ν				

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	mg	milligram(s)
С	degrees Celsius	mL	milliliter(s)
cfu	colony forming units	MPN	Most Probable Number
CP Units	cobalt-chloroplatinate units	N.D.	non-detect
F	degrees Fahrenheit	ng	nanogram(s)
g	gram(s)	NTU	nephelometric turbidity units
IU	International Units	pg/L	picogram/liter
kg	kilogram(s)	RL	Reporting Limit
L	liter(s)	TNTC	Too Numerous To Count
lb.	pound(s)	μg	microgram(s)
m3	cubic meter(s)	μL	microliter(s)
meq	milliequivalents	umhos/cm	micromhos/cm

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

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Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

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Data Qualifiers

Qualifier Definition С Result confirmed by reanalysis D1 Indicates for dual column analyses that the result is reported from column 1 D2 Indicates for dual column analyses that the result is reported from column 2 Е Concentration exceeds the calibration range J (or G, I, X) Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL) Concentration difference between the primary and confirmation column >40%. The lower result is reported. Ρ U Analyte was not detected at the value indicated V Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference. W The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L. Ζ Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

APPENDIX E

Data Validation Report





CHEVRON

DATA REVIEW

1200 Park Street Alameda, California

Volatile Organic Compounds (VOC), Semivolatile Organic Compounds (SVOCs), and Total Petroleum Hydrocarbon (TPH) Analyses

SDG #: 1922999

Analyses Performed By: Eurofins Lancaster Laboratories Lancaster, Pennsylvania

Report #: 29686R Review Level: Tier II Project: B0090955.00SA.00005

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 1922999 for samples collected in association with the former Chevron site at 1200 Park Street in Alameda, California. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data as reported by the laboratory were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

			Sample Collection	Parent	Analy		Analysi	S	
Sample ID	Lab ID	Matrix	Date	Sample	VOCs	GRO	DRO	PAH	Misc.
MW-1-S-3-180320	9520222	Soil	3/20/2018		Х	Х	Х		
MW-1-S-5-180320	9520223	Soil	3/20/2018		Х	Х	Х		
MW-1-S-10-180320	9520224	Soil	3/20/2018		Х	Х	Х		
MW-1-S-15-180320	9520225	Soil	3/20/2018		Х	Х	Х		
MW-2-S-3-180320	9520226	Soil	3/20/2018		Х	Х	Х		
MW-2-S-5-180320	9520227	Soil	3/20/2018		Х	Х	Х		
MW-2-S-8-180320	9520228	Soil	3/20/2018		Х	Х	Х		
MW-2-S-10-180320	9520229	Soil	3/20/2018		Х	Х	Х		
MW-2-S-12-180320	9520230	Soil	3/20/2018		Х	Х	Х		
MW-2-S-15-180320	9520231	Soil	3/20/2018		Х	Х	Х		
MW-3-S-3-180320	9520232	Soil	3/20/2018		Х	Х	Х		
MW-3-S-5-180320	9520233	Soil	3/20/2018		Х	Х	Х		
MW-3-S-10-180320	9520234	Soil	3/20/2018		Х	Х	Х		
MW-3-S-15-180320	9520235	Soil	3/20/2018		Х	Х	Х		
MW-4-S-3-180320	9520236	Soil	3/20/2018		Х	Х	Х		
MW-4-S-5-180320	9520237	Soil	3/20/2018		Х	Х	Х		
MW-4-S-10-180321	9520238	Soil	3/21/2018		Х	Х	Х		
MW-4-S-15-180321	9520239	Soil	3/21/2018		Х	Х	Х		
HA-1-S-3-180321	9520240	Soil	3/21/2018					Х	
HA-1-S-8-180321	9520241	Soil	3/21/2018					Х	
HA-2-S-3-180321	9520242	Soil	3/21/2018					Х	
HA-2-S-8-180321	9520243	Soil	3/21/2018					Х	

Note: Soil sample results were reported on a dry-weight basis.

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

		Rep	orted		mance ptable	Not
	Items Reviewed	No	Yes	No	Yes	Required
1.	Sample receipt condition		Х		Х	
2.	Requested analyses and sample results		Х		Х	
3.	Master tracking list		Х		Х	
4.	Methods of analysis		Х		Х	
5.	Reporting limits		Х		Х	
6.	Sample collection date		Х		Х	
7.	Laboratory sample received date		Х		Х	
8.	Sample preservation verification (as applicable)		Х		Х	
9.	Sample preparation/extraction/analysis dates		Х		Х	
10.	Fully executed Chain-of-Custody (COC) form		Х		Х	
11.	Narrative summary of quality assurance (QA) or sample problems provided		х		х	
12.	Data Package Completeness and Compliance		Х		Х	

DATA REVIEW REPORT

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 8260B, 8015B, and 8270C. Validation was performed following the procedures specified in *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (October 1999).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected as unusable. The compound may or may not be present in the sample.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is

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DATA REVIEW REPORT

that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
	Water (Preserved)	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl
VOCs by 8260B	Water (Unpreserved)	7 days from collection to analysis	Cool to < 6 °C
	Soil	14 days from collection to analysis	Cool to < 6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

QA blanks (i.e. laboratory method blanks, trip blanks, and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure sample storage contamination. Rinse blanks also measure contamination of samples during field operations.

If an analyte is detected in a blank at a concentration greater than the method detection limit (MDL), a blank action level (BAL) is calculated as five times the concentration detected in the blank. The BAL for common laboratory contaminants (e.g. acetone, methylene chloride) is calculated at ten times the blank concentration. Detected analytes in the associated samples are compared to the BAL. If the result is greater than the BAL, no qualification is required, and any laboratory-assigned flags are removed, otherwise the result is qualified as not detected (UB) at either the sample reporting limit or the concentration detected in the sample, whichever is greater.

Target compounds were not detected above the MDL in the associated blanks; therefore, detected sample results are not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

Samples associated with surrogates exhibiting recoveries outside of the control limits are presented in the following table.

Sample	Surrogate	Recovery
MW-2-S-12-180320	Dibromofluoromethane 1,2-Dichloroethane-d₄ Toluene-d ₈ 4-Bromofluorobenzene	> UL

The sample results associated with surrogate deviations are qualified according to the criteria presented in the following table.

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Control Limit	Sample Result	Qualification
	Non-detect	No Action
> UL (Upper Control Limit)	Detect	J
	Non-detect	UJ
< LL (Lower Control Limit) but > 10%	Detect	J
< 10%	Non-detect	R
< 10%	Detect	J

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The spiked compounds used in the MS/MSD analysis must exhibit recoveries within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS and MSD results must be within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSDs performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD spiking concentration by a factor of four or greater. Sample results associated with MS/MSD exceedances where the parent samples are not site-specific are not qualified.

All compounds associated with the MS/MSD analyses exhibited acceptable recoveries and RPDs.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The spiked compounds used in the LCS/LCSD analysis must exhibit recoveries within the laboratory-established acceptance limits. The relative percent difference (RPD) between the LCS and LCSD results must be within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analyses exhibited recoveries and RPDs within the control limits.

6. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. A control limit of 25% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the reporting limit (RL), a control limit of two times the RL for water matrices or three times the RL for soil matrices is applied to the difference between the results.

Field duplicate samples were not collected for this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCS

VOCs: SW-846 8260B	Rep	orted		rmance ptable	Not
	No	Yes	No	Yes	Required
Gas Chromatography/Mass Spectrometry (GC/MS)					
Tier II Validation					
Holding Times		Х		х	
Reporting Limits (Units)		х		х	
Blanks					
A. Method Blanks		Х		Х	
B. Equipment and/or Field Blanks	Х				Х
C. Trip Blanks	Х				Х
Surrogates Accuracy (%R)		Х	Х		
Matrix Spike (MS) %R		Х		х	
Matrix Spike Duplicate (MSD) %R		Х		х	
MS/MSD Precision (RPD)		Х		х	
Laboratory Control Sample (LCS) %R		Х		х	
Laboratory Control Sample Duplicate (LCSD) %R		Х		Х	
LCS/LCSD RPD		Х		Х	
Laboratory Duplicate Sample RPD	Х				х
Field Duplicate Sample RPD	Х				Х
Dilution Factor		Х		Х	
Moisture Content		х		х	

%R - Percent recovery RPD - Relative percent difference

TOTAL PETROLEUM HYDROCARBONS GASOLINE RANGE ORANICS (TPH-G/GRO) ANALYSIS

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
TPH-G/GRO by	Water	14 days from collection to analysis	Cool to < 6 °C
SW-846 8015B	Soil	14 days from collection to analysis	Cool to < 6 °C

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

QA blanks (i.e. laboratory method blanks, trip blanks, and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure sample storage contamination. Rinse blanks also measure contamination of samples during field operations.

If an analyte is detected in a blank at a concentration greater than the method detection limit (MDL), a blank action level (BAL) is calculated as five times the concentration detected in the blank. Detected analytes in the associated samples are compared to the BAL. If the result is greater than the BAL, no qualification is required, and any laboratory-assigned flags are removed, otherwise the result is qualified as not detected (UB) at either the sample reporting limit or the concentration detected in the sample, whichever is greater.

Target analytes were not detected above the MDL in the associated blanks; therefore, detected sample results are not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic analytes are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. The TPH-G/GRO analysis requires all surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

All samples exhibited surrogate recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The spiked analytes used in the MS/MSD analysis must exhibit recoveries within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS and MSD results must be within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSDs performed on samples where the analyte concentration detected in the parent sample exceeds the MS/MSD spiking concentration by a factor of four or greater. Sample results associated with MS/MSD exceedances where the parent samples are not site-specific are not qualified.

The MS/MSD analysis was not performed using a sample from this SDG.

5. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The spiked analytes used in the LCS/LCSD analysis must exhibit recoveries within the laboratory-established acceptance limits. The relative percent difference (RPD) between the LCS and LCSD results must be within the laboratory-established acceptance limits.

All analytes associated with the LCS/LCSD analyses exhibited recoveries and RPDs within the control limits.

6. Laboratory Duplicate Sample Analysis

The laboratory duplicate sample analysis is used to assess the precision of the analytical method. The RPD between the duplicate sample results must be within the laboratory-established control limit. The laboratory duplicate sample RPD criterion is applied when parent and duplicate sample concentrations are at least five times the reporting limit (RL). When the parent and duplicate sample concentrations are less than five times the RL, a control limit of one times the RL for water matrices and two times the RL for soil matrices is applied to the difference between the results.

The laboratory duplicate sample analysis was not performed using a sample from within this SDG.

7. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. A control limit of 25% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of two times the RL for water matrices or three times the RL for soil matrices is applied to the difference between the results.

Field duplicate samples were not collected for this SDG.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Performance Reported Not Acceptable **TPH-G/GRO SW-846 8015B** Required No Yes No Yes Gas Chromatography/Flame Ionization Detector (GC/FID) **Tier II Validation** Holding Times Х Х Reporting Limits (Units) Х Х Blanks A. Method Blanks Х Х B. Equipment and/or Field Blanks Х Х C. Trip Blanks Х Х Surrogates Accuracy (%R) Х Х Matrix Spike (MS) %R Х Х Matrix Spike Duplicate (MSD) %R Х Х MS/MSD Precision (RPD) Х Х Laboratory Control Sample (LCS) %R Х Х Laboratory Control Sample Duplicate (LCSD) %R Х Х LCS/LCSD RPD Х Х Laboratory Duplicate Sample RPD Х Х Х Х Field Duplicate Sample RPD **Dilution Factor** Х Х Х Moisture Content Х

DATA VALIDATION CHECKLIST FOR TPH-G/GRO

%R = Percent recovery

RPD = Relative percent difference

TOTAL PETROLEUM HYDROCARBONS DIESEL AND MOTOR OIL RANGE ORANICS (TPH-D/MO/DRO) ANALYSIS

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
TPH-D/MO/DRO by	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to < 6 °C
SW-846 8015B	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to < 6 °C

The analyses that exceeded the holding time are presented in the following table; all other holding times were met.

Sample	Analysis/Analyte	Extraction Completed	Holding Time Criteria
MW-1-S-3-180320 MW-1-S-10-180320 MW-1-S-15-180320 MW-2-S-3-180320 MW-2-S-8-180320 MW-2-S-10-180320 MW-3-S-12-180320 MW-3-S-3-180320 MW-3-S-10-180320 MW-3-S-15-180320 MW-4-S-3-180320	TPH-DRO C10-C28	20 Days	14 Days
MW-1-S-5-180320 MW-2-S-15-180320 MW-4-S-10-180321 MW-4-S-15-180321	TPH-DRO C10-C28	19 Days	14 Days
MW-2-S-5-180320	TPH-DRO C10-C28	21 Days	14 Days
MW-1-S-3-180320 MW-1-S-5-180320 MW-1-S-10-180320 MW-1-S-15-180320 MW-2-S-3-180320 MW-2-S-5-180320 (initial extraction) MW-2-S-8-180320 MW-2-S-10-180320 MW-2-S-15-180320 MW-3-S-3-180320 MW-3-S-5-180320 MW-3-S-15-180320 MW-4-S-3-180320 MW-4-S-5-180320	TPH-DRO C10-C28 w/ Si Gel	16 Days	14 Days
MW-4-S-10-180321 MW-4-S-15-180321	TPH-DRO C10-C28 w/ Si Gel	15 Days	14 Days
MW-2-S-5-180320 (re-extraction)	TPH-DRO C10-C28 w/ Si Gel	29 Days	14 Days

Sample results for parameters that were analyzed past the recommended holding times were qualified as specified in the table below.

Criteria	Qualif	ication
Griteria	Detects	Non-detects
Analysis completed < 2x holding time	J	UJ
Analysis completed > 2x holding time	J	R

2. Blank Contamination

QA blanks (i.e. laboratory method blanks, trip blanks, and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure sample storage contamination. Rinse blanks also measure contamination of samples during field operations.

If an analyte is detected in a blank at a concentration greater than the method detection limit (MDL), a blank action level (BAL) is calculated as five times the concentration detected in the blank. Detected analytes in the associated samples are compared to the BAL. If the result is greater than the BAL, no qualification is required, and any laboratory-assigned flags are removed, otherwise the result is qualified as not detected (UB) at either the sample reporting limit or the concentration detected in the sample, whichever is greater.

Target analytes were not detected above the MDL in the associated blanks; therefore, detected sample results are not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic analytes are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. The TPH-D/MO/DRO analysis requires all surrogate compounds exhibit recoveries within the laboratory-established acceptance limits.

All samples exhibited surrogate recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The spiked analytes used in the MS/MSD analysis must exhibit recoveries within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS and MSD results must be within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSDs performed on samples where the analyte concentration detected in the parent sample exceeds the MS/MSD spiking concentration by a factor of four or greater. Sample results associated with MS/MSD exceedances where the parent samples are not site-specific are not qualified.

Samples MW-2-S-5-180320, MW-3-S-5-180320, and MW-4-S-15-180321 were used in the MS and MS/MSD analyses. Samples associated with the MS/MSD exhibiting recoveries outside of the control limits are presented in the following table.

Sample	Analyte	MS Recovery	MSD Recovery
MW-3-S-5-180320	Total TPH	< LL but > 10%	< LL but > 10%

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The criteria used to evaluate the MS/MSD recoveries are presented in the following table. In the case of MS/MSD deviations, the sample results are qualified as documented in the table below.

Control Limit	Sample Result	Qualification
> the upper central limit (111)	Non-detect	No Action
> the upper control limit (UL)	Detect	J
< the lower central limit (11) but > 100/	Non-detect	UJ
< the lower control limit (LL) but > 10%	Detect	J
- 400/	Non-detect	R
< 10%	Detect	J
Parent sample concentration > 4x the MS/MSD spiking	Detect	
solution concentration.	Non-detect	No Action

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The spiked analytes used in the LCS analysis must exhibit recoveries within the laboratory-established acceptance limits.

All analytes associated with the LCS analyses exhibited recoveries within the control limits.

6. Laboratory Duplicate Sample Analysis

The laboratory duplicate sample analysis is used to assess the precision of the analytical method. The RPD between the duplicate sample results must be within the laboratory-established control limit. The laboratory duplicate sample RPD criterion is applied when parent and duplicate sample concentrations are at least five times the reporting limit (RL). When the parent and duplicate sample concentrations are less than five times the RL, a control limit of one times the RL for water matrices and two times the RL for soil matrices is applied to the difference between the results.

All analytes associated with the laboratory duplicate sample analyses exhibited RPDs within the control limits.

7. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. A control limit of 25% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the RL, a control limit of two times the RL for water matrices or three times the RL for soil matrices is applied to the difference between the results.

Field duplicate samples were not collected for this SDG.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Performance Reported Not Acceptable TPH-D/MO/DRO: SW-846 8015B Required No Yes No Yes Gas Chromatography/Flame Ionization Detector (GC/FID) **Tier II Validation** Holding Times Х Х Reporting Limits (Units) Х Х Blanks A. Method Blanks Х Х B. Equipment and/or Field Blanks Х Х Surrogates Accuracy (%R) Х Х Matrix Spike (MS) %R Х Х Matrix Spike Duplicate (MSD) %R Х Х MS/MSD Precision (RPD) Х Х Laboratory Control Sample (LCS) %R Х Х Laboratory Control Sample Duplicate (LCSD) %R Х Х LCS/LCSD RPD Х Х Laboratory Duplicate Sample RPD Х Х Field Duplicate Sample RPD Х Х **Dilution Factor** Х Х Moisture Content Х Х

DATA VALIDATION CHECKLIST FOR TPH-D/MO/DRO

%R = Percent recovery

RPD = Relative percent difference

SEMIVOLATILE ORGANIC COMPOUND (SVOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8270C	Water	7 days from collection to extraction and 40 days from extraction to analysis	Cool to < 6 °C
300-040 82700	Soil	14 days from collection to extraction and 40 days from extraction to analysis	Cool to < 6 °C

All samples were extracted and analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e. laboratory method blanks and equipment rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Target compounds were not detected above the MDL in the associated blanks; therefore, detected sample results are not associated with blank contamination.

3. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. SVOC analysis requires that two of the three SVOC surrogate compounds within each fraction exhibit recoveries within the laboratory-established acceptance limits, and that all SVOC surrogate recoveries be greater than ten percent.

All samples exhibited surrogate recoveries within the control limits.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit recoveries within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS and MSD results must be within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on samples where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified, and the laboratory qualifier will be removed. Sample results associated with MS/MSD exceedances where the parent samples are not site-specific are not qualified.

All compounds associated with the MS/MSD analysis exhibited acceptable recoveries and RPDs.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The spiked compounds used in the LCS analysis must exhibit recoveries within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

6. Field Duplicate Sample Analysis

The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. A control limit of 25% for water matrices and 50% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to five times the reporting limit (RL), a control limit of two times the RL for water matrices or three times the RL for soil matrices is applied to the difference between the results.

Field duplicate samples were not collected for this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR SVOCS

SVOCs: SW-846 8270C	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding Times		Х		Х	
Reporting Limits (Units)		Х		Х	
Blanks					
A. Method Blanks		Х		Х	
B. Equipment and/or Field Blanks	Х				Х
Surrogates Accuracy (%R)		Х		Х	
Matrix Spike (MS) %R		Х		Х	
Matrix Spike Duplicate (MSD) %R		Х		Х	
MS/MSD Precision (RPD)		Х		Х	
Laboratory Control Sample (LCS) %R		Х		Х	
Laboratory Control Sample Duplicate (LCSD) %R	Х				Х
LCS/LCSD RPD	Х				Х
Field Duplicate Sample RPD		Х		Х	
Dilution Factor		Х		Х	
Moisture Content		Х		Х	

%RPercent RecoveryRPDRelative Percent Difference

Validation Performed By:	Dennis Dyke
Signature:	Dennigh

Date: May 2, 2018

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



ا مرح Chevron California Region Analysis Request/Chain of Custody	Californ	nia	Regi	on A	Inal	ysi	s R	edi	Nes	t/Chai	n of Cu	of 2 ustody	
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issued by Dept. 40 Management ດ <u> Chevron California Region Analysis Request/Chain of Custody</u> oxy's on highest hit ۶

 8021 MTBE Confirmation

 Confirm highest hit by 8260

 Confirm all hits by 8260

 Run ______oxy's on highest hits

 Run ______oxy's on all hits

 1010 Must meet lowest detection ☐ Results in Dry Weight ☐ J value reporting needed lime Time limits possible for 8260 Remarks 3/23/18 Yes/ compounds SCR #: m Date 6 Custody Seals Intact? Group # PG Lapcaster Laboratories use only 2020 - 43 Instructions on reverse side correspond with circled numbers. Lancaster Laboratories, Inc. • 2425 New H**대ଅପ୍ରሪ ଅଞ୍ଚିର, ዕ**ቶጭን PA 17601 • 717-656-2300 The white copy should accompany samples to Lancaster Laboratories. The yellow copy should be retained by the client. R ď 7 Q Analyses Requested Received by seceive@/by Receiventhy bonteM Dissolved Lead Dethod bsel lstol Oxygenates SZUMUS (638 0671 8260 Full Scan ပ္စ , o ime Silica Gel Cleanup 3/12/12 TPH 8015 MOD DRO Other Temperature Upon Receipt ()).{\u0] тен еко///08015.2 Z Q X 0928 Q 12 2 + XAT8 2 X 0978 1208 8021 U 7 Z Date 2 Relinquished by Commerical Carrier FedEx __ Total Number of Containers Alvares ٦İA I!O \square 20 Matrix \Box Surface \square NPDES Water Ground \square Potable Acct. # 1964 XQQQ Kadle R R 2 2 Ŕ **Jnemibe**S lioS 4 Relinguished by Relinquished by UPS Composite Grab 0835 0101 037718-01 1002 Time 8 130 0h! ! 3/21/18 0815 000 00m/ [4]/02/cj Data Package Options (please circle if required) C)SHD Collected Turnaround Time Requested (TAT) (please circle) ead Consultan atherene Szymancuski 31/02/2 Type VI (Raw Data) 24 hour Date 4 day 7 WBS > S STUP OPS Client Information Alameda -20180321 MW-4-5-10-20130321 2013032 Laboratories MW-45-3-20180320 -20190320 - 20180321 Corrigen MW-3-5-15-20100320 2018 03 21 - 20(8032) Lancaster 48 hour 5 day Arcadis 909SS Park St. 010 Sample Identification Type I - Full 🐝 eurofins NW-4-5-19 -2-8 2 MW-4-S-9 HA-1-S-8 3 Kevin Standard 72 hour onsultant Project Mgr. ŝ S-1-0H onsultant Phone Consultant/Office Ņ 200 5 Chevron PM Site Address Sampler acility # 4 6 2

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Project Name:

Lancaster Laboratories **Environmental**

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Sample Description: MW-1-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 09:40

Analysis Report

Chevron ELLE Sample #: SW 9520222 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	4	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260)B	mg/kg	I	mg/kg	
10237	Benzene		71-43-2	N.D.		0.0004	0.81
10237	Ethylbenzene		100-41-4	N.D.		0.0009	0.81
10237	Naphthalene		91-20-3	N.D.		0.0009	0.81
10237	Toluene		108-88-3	N.D.		0.0009	0.81
10237	Xylene (Total)		1330-20-7	N.D.		0.0009	0.81
GC Vol	atiles	SW-846 8015	B modified	mg/kg	1	mg/kg	
01725	TPH-GRO N. CA soil C6-	C12	n.a.	N.D.		0.4	20.16
GC Mis	cellaneous	SW-846 8015	5B	mg/kg	I	mg/kg	
10941	TPH-DRO soil C10-C28 n	nicrowave	n.a.	N.D.	UJ	4.2	1
	The holding time was not data reported.	met. The client wa	as notified and the				
GC Pet		SW-846 8015	B modified	mg/kg	I	mg/kg	
Hydroc	arbons						
02516	Total TPH		n.a.	N.D.		11	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.		11	1
that o	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in	a range that include				
GC Pet	roleum	SW-846 8015	5B	mg/kg	I	mg/kg	
Hydroc	arbons w/Si						
02222	TPH-DRO soil C10-C28 w The reverse surrogate, ca The holding time was not data reported.	pric acid, is preser		N.D.	UJ	4.2	1
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Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		



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Analysis Report

Sample Description:	MW-1-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520222 1922999	
Project Name:	90955			
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 09:40			

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 16:51	Jennifer K Howe	0.81			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 09:40	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 09:40	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 09:40	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/26/2018 21:54	Jeremy C Giffin	20.16			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 09:40	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 16:07	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 14:40	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 16:10	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1			



Project Name:

Lancaster Laboratories **Environmental**

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90955

Sample Description: MW-1-S-5-180320 Grab Soil Facility# 90955 BBLW

1200 Park St-Alameda NA MW-1

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 09:50

Analysis Report

Chevron ELLE Sample #: SW 9520223 ELLE Group #: 1922999 Matrix: Soil

Dry

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	B	mg/kg		mg/kg	
10237	Benzene		71-43-2	N.D.		0.0004	0.83
10237	Ethylbenzene		100-41-4	N.D.		0.0009	0.83
10237	Naphthalene		91-20-3	N.D.		0.0009	0.83
10237 10237	Toluene Xylene (Total)		108-88-3 1330-20-7	N.D. N.D.		0.0009 0.0009	0.83 0.83
10237	Aylerie (Total)		1550-20-7	N.D.		0.0009	0.05
GC Vo	atiles	SW-846 8015	B modified	mg/kg		mg/kg	
01725	TPH-GRO N. CA soil C6-0	C12	n.a.	N.D.		0.4	20.63
GC Mis	cellaneous	SW-846 8015	B	mg/kg		mg/kg	
10941	TPH-DRO soil C10-C28 m		n.a.	N.D.	UJ	4.3	1
	The holding time was not data reported.	met. The client wa	as notified and the		00		
	roleum	SW-846 8015	B modified	mg/kg		mg/kg	
	arbons						
02516	Total TPH		n.a.	N.D.		11	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.		11	1
that o	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in	a range that include				
GC Pet	roleum	SW-846 8015	В	mg/kg		mg/kg	
Hydrod	arbons w/Si						
02222	TPH-DRO soil C10-C28 w	//Si Gel	n.a.	N.D.	UJ	4.3	1
	The reverse surrogate, ca The holding time was not data reported.						
Wet Ch	nemistry	SM 2540 G-1	997	%		%	
	ionnou y	%Moisture C					
00111	Moisture		n.a.	7.8		0.50	1
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.				:		

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		



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Analysis Report

Sample Description:	MW-1-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520223 1922999
Project Name:	90955	Matrix. Son	
Submittal Date/Time:	03/23/2018 10:15		
Collection Date/Time:	03/20/2018 09:50		

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 17:14	Jennifer K Howe	0.83			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 09:50	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 09:50	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 09:50	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/26/2018 22:32	Jeremy C Giffin	20.63			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 09:50	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/08/2018 22:24	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 15:02	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 23:52	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1			



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Analysis Report

Sample Description	MW-1-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA M\	Chevron ELLE Sampl ELLE Group Matrix: Soil	#: 1922999	
Project Name:	90955			
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 13:10			
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
	SW-846 8260B 71-43-2 100-41-4 91-20-3 108-88-3 1330-20-7 SW-846 8015B modified Noil C6-C12 n.a. SW-846 8015B 10-C28 microwave n.a. was not met. The client was notified and th	mg/kg N.D. N.D. N.D. N.D. mg/kg N.D. 5.7 J e	mg/kg 0.0004 0.0008 0.0008 0.0008 0.0008 mg/kg 0.4 mg/kg 4.6	0.71 0.71 0.71 0.71 0.71 17.86
that of a hydrocarbon c	n.a. 16-C36 n.a. ed on peak area comparison of the sample p pomponent mix calibration in a range that inclu- 240 (n-tetracontane) normal hydrocarbons.		mg/kg 11 11	1 1
	SW-846 8015B 10-C28 w/Si Gel n.a. ogate, capric acid, is present at <1%. was not met. The client was notified and th	mg/kg N.D. UJ e	mg/kg 4.6	1
	SM 2540 G-1997 %Moisture Calc n.a. ents the loss in weight of the sample after over sc Celsius. The moisture result reported is or s.		% 0.50	1

Sample Comments

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	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		



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Sample Description:	MW-1-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520224 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 13:10		

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 17:38	Jennifer K Howe	0.71			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 13:10	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 13:10	Client Supplied	1			
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 13:10	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/26/2018 23:10	Jeremy C Giffin	17.86			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 13:10	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 15:27	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 15:23	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 16:30	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1			



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Analysis Report

Sampl	Sample Description: MW-1-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1		I		Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520225 1922999
Projec	t Name:	90955				
	ttal Date/Time: ion Date/Time:	03/23/2018 10:15 03/20/2018 13:20				
CAT No.	Analysis Name	CAS	Dry Number Result	Dry Method Detectio		Dilution Factor
10237 10237 10237 10237 10237 10237 GC Vo 01725	TPH-GRO N. CA so scellaneous TPH-DRO soil C10	SW-846 8015B	41-4 N.D. 0-3 N.D. 38-3 N.D. -20-7 N.D. odified mg/kg N.D. mg/kg N.D.	mg/kg 0.0004 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 mg/kg 0.4 mg/kg UJ	((((0.8 0.8 0.8 0.8 0.8 18.41
Hydro 02516 02516 TPH that o	of a hydrocarbon com	SW-846 8015B me n.a. -C36 n.a. on peak area comparison of the ponent mix calibration in a rang (n-tetracontane) normal hydrod	N.D. N.D. e sample pattern to e that includes	mg/kg 10 10		1 1
		SW-846 8015B -C28 w/Si Gel n.a. ate, capric acid, is present at <1 as not met. The client was notif		mg/kg נוסט ל.2		1
Wet C		SM 2540 G-1997 %Moisture Calc n.a. s the loss in weight of the samp Celsius. The moisture result rep		% 0.50		1

Sample Comments

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		Lab	oratory S	Sample Analysis	s Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



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Sample Description:	MW-1-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-1	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520225 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 13:20		

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 18:01	Jennifer K Howe	0.8				
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 13:20	Client Supplied	1				
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 13:20	Client Supplied	1				
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 13:20	Client Supplied	1				
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/26/2018 23:48	Jeremy C Giffin	18.41				
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 13:20	Client Supplied	n.a.				
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 15:47	Thomas C Wildermuth	1				
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 15:45	Timothy M Emrick	1				
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 16:50	Thomas C Wildermuth	1				
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1				
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1				
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1				
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1				



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Sample Description: MW-2-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 10:20

Analysis Report

Chevron ELLE Sample #: SW 9520226 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	В	mg/kg		mg/kg	
10237	Benzene		71-43-2	0.0004		0.0004	0.7
10237	Ethylbenzene		100-41-4	N.D.		0.0008	0.7
10237	Naphthalene		91-20-3	N.D.		0.0008	0.7
10237	Toluene		108-88-3	N.D.		0.0008	0.7
10237	Xylene (Total)		1330-20-7	N.D.		0.0008	0.7
GC Vol	atiles	SW-846 8015	B modified	mg/kg		mg/kg	
01725	TPH-GRO N. CA soil C6-0	C12	n.a.	N.D.		0.4	18.63
GC Mis	cellaneous	SW-846 8015	B	mg/kg		mg/kg	
10941	TPH-DRO soil C10-C28 n		n.a.	N.D.	UJ	4.3	1
10011	The holding time was not data reported.			11.0.	00		
GC Pet		SW-846 8015	B modified	mg/kg		mg/kg	
Hydroc	arbons						
02516	Total TPH		n.a.	N.D.		11	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.		11	1
that o	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in	a range that include				
	roleum arbons w/Si	SW-846 8015	iΒ	mg/kg		mg/kg	
02222	TPH-DRO soil C10-C28 w	//Si Gel	n.a.	N.D.	IJ	4.3	1
	The reverse surrogate, ca The holding time was not data reported.						
Wet Ch	emistry	SM 2540 G-1	997	%		%	
	- ,	%Moisture C					
00111	Moisture		n.a.	7.2		0.50	1
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.						

Sample Comments

CA ELAP Lab Certification No. 2792

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		Labo	oratory S	ample Analysis	Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



Collection Date/Time:

Lancaster Laboratories Environmental

03/20/2018 10:20

%Moisture Calc

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Analysis Report

SW 9520226

1922999

Sample Description:	MW-2-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil
Project Name:	90955	Matrix. Joh
Submittal Date/Time:	03/23/2018 10:15	

Laboratory Sample Analysis Record Method CAT Analysis Name Trial# Batch# Dilution Analysis Analyst Date and Time Factor No. 10237 BTEX/Naphthalene - Soil SW-846 8260B X180871AA 03/28/2018 18:24 Jennifer K Howe 1 0.7 02392 GC/MS - Field Preserved SW-846 5035A 201808349313 03/20/2018 10:20 **Client Supplied** 1 1 NaHSO4 02392 GC/MS - Field Preserved SW-846 5035A 2 201808349313 03/20/2018 10:20 **Client Supplied** 1 NaHSO4 07579 GC/MS-5g Field SW-846 5035A 1 201808349313 03/20/2018 10:20 **Client Supplied** 1 Preserv.MeOH-NC 01725 TPH-GRO N. CA soil C6-C12 SW-846 8015B modified 18085A16A 03/27/2018 00:26 Jeremy C Giffin 18.63 1 GC-5g Field Preserved MeOH SW-846 5035A 201808349313 03/20/2018 10:20 **Client Supplied** 06647 1 n.a. Thomas C Wildermuth TPH-DRO soil C10-C28 SW-846 8015B 180950001A 04/09/2018 05:05 10941 1 1 microwave 02516 TPH Fuels by GC (Soils) SW-846 8015B modified 180890013A 04/02/2018 20:24 **Timothy M Emrick** 1 1 TPH-DRO soil C10-C28 w/Si Gel SW-846 8015B 1 180950002A 04/12/2018 17:10 Thomas C Wildermuth 02222 1 11210 DRO by 8015 Microwave w/ SG SW-846 3546 180950002A 04/05/2018 18:50 Sally L Appleyard 1 1 Microwave Extraction-DRO soils SW-846 3546 180950001A 04/05/2018 18:50 10942 1 Sally L Appleyard 1 11218 **TPH Fuels Soils Extraction** SW-846 3550B 180890013A 03/30/2018 18:20 1 Sally L Appleyard 1 SM 2540 G-1997 18082820004B 03/24/2018 00:48 Scott W Freisher 00111 Moisture 1 1



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Analysis Report

Sample Description: MW-2-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2		W-2	Chevron ELLE Sam ELLE Grou Matrix: So	ip #: 1922999
Project Name:	90955			
Submittal Date/Tim Collection Date/Tin				
CAT No. Analysis Na	me CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237 Benzene	71-43-2	N.D.	0.0004	0.7
10237 Ethylbenzene	e 100-41-4	N.D.	0.0008	0.7
10237 Naphthalene	91-20-3	N.D.	0.0008	0.7
10237 Toluene	108-88-3	0.0008	0.0008	0.7
10237 Xylene (Tota) 1330-20-7	N.D.	0.0008	0.7
GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg	
	CA soil C6-C12 n.a.	N.D.	0.4	17.41
		N.D.	0.4	17.71
GC Miscellaneous	SW-846 8015B	mg/kg	mg/kg	
	il C10-C28 microwave n.a. ime was not met. The client was notified and th l.	N.D. <mark>UJ</mark> ne	4.5	1
GC Petroleum	SW-846 8015B modified	mg/kg	mg/kg	
Hydrocarbons				
02516 Total TPH	n.a.	15	11	1
02516 TPH Motor C		15	11	1
that of a hydrocarbo	pased on peak area comparison of the sample p n component mix calibration in a range that incl nh C40 (n-tetracontane) normal hydrocarbons.			
GC Petroleum Hydrocarbons w/s	SW-846 8015B	mg/kg	mg/kg	
02222 TPH-DRO so The reverse The holding t data reported The sample	il C10-C28 w/Si Gel n.a. surrogate, capric acid, is present at <1%. ime was not met. The client was notified and th	olding	4.5	1
Trial ID: RE				
	il C10-C28 w/Si Gel n.a.	-N.D. R	4.5	1
The reverse The holding t data reported The sample v	surrogate, capric acid, is present at <1%. ime was not met. The client was notified and th	ne		
Wet Chemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111 Moisture	n.a.	11.1	0.50	1
Moisture rep	resents the loss in weight of the sample after ov	en drying at		

103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.



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Sample Description:	MW-2-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2
Project Name:	90955
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 10:30

Chevron ELLE Sample #: SW ELLE Group #: 192 Matrix: Soil

SW 9520227 1922999

Sample Comments

CA ELAP Lab Certification No. 2792

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

		Labora	atory S	ample Analysis	Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 18:47	Jennifer K Howe	0.7
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 10:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 10:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 10:30	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 01:04	Jeremy C Giffin	17.41
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 10:30	Client Supplied	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/10/2018 18:57	Thomas C Wildermuth	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 20:45	Timothy M Emrick	1
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 17:31	Thomas C Wildermuth	1
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	2-RE	181080006A	04/23/2018 17:39	Thomas C Wildermuth	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	3	181080006A	04/18/2018 22:50	Kate E Lutte	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	2	18086820005A	03/27/2018 23:25	Scott W Freisher	1



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Sample Description: MW-2-S-8-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 10:50

Analysis Report

Chevron ELLE Sample #: SW 9520228 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection	on Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	B	mg/kg	mg/kg		
10237	Benzene		71-43-2	0.004	0.0005		0.84
10237	Ethylbenzene		100-41-4	0.002	0.001		0.84
10237	Naphthalene		91-20-3	0.052	0.001		0.84
10237	Toluene		108-88-3	0.003	0.001		0.84
10237	Xylene (Total)		1330-20-7	0.003	0.001		0.84
GC Vo	atiles	SW-846 8015	B modified	mg/kg	mg/kg		
01725	TPH-GRO N. CA soil C6-	C12	n.a.	98	5.5		212.22
GC Mis	scellaneous	SW-846 8015	B	mg/kg	mg/kg		
10941	TPH-DRO soil C10-C28 n		n.a.	45	5.2		1
	The holding time was not data reported.				0.2		
	troleum	SW-846 8015	B modified	mg/kg	mg/kg		
Hydroo	arbons						
02516	Total TPH		n.a.	200	13		1
02516	TPH Motor Oil C16-C36		n.a.	200	13		1
that c	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in	a range that include				
GC Pe	troleum	SW-846 8015	В	mg/kg	mg/kg		
Hydrod	arbons w/Si						
02222	TPH-DRO soil C10-C28 w The reverse surrogate, ca The holding time was not data reported.	pric acid, is preser		39 J	5.2		1
Wet Cl	nemistry	SM 2540 G-1 %Moisture C		%	%		
00111	Moisture		n.a.	22.8	0.50		1
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.						

Sample Comments

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		Lal	boratory S	Sample Analy	sis Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor



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Analysis Report

Sample Description:	MW-2-S-8-180320 Grab Soil Facility# 90955 BBLW	Chevr ELLE
	1200 Park St-Alameda NA MW-2	ELLE Matrix
Project Name:	90955	

Submittal Date/Time: Collection Date/Time: 03/23/2018 10:15 03/20/2018 10:50 Chevron ELLE Sample #: SW ELLE Group #: 192 Matrix: Soil

SW 9520228 1922999

	Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor					
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	A180911AA	04/01/2018 16:24	Stephen C Nolte	0.84					
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 10:50	Client Supplied	1					
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 10:50	Client Supplied	1					
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 10:50	Client Supplied	1					
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 06:07	Jeremy C Giffin	212.22					
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 10:50	Client Supplied	n.a.					
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 04:25	Thomas C Wildermuth	1					
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 21:50	Timothy M Emrick	1					
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 22:32	Thomas C Wildermuth	1					
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1					
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1					
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1					
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004B	03/24/2018 00:48	Scott W Freisher	1					



Project Name:

Lancaster Laboratories Environmental

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Sample Description: MW-2-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

1200 Park St-Alameda NA M 90955

 Submittal Date/Time:
 03/23/2018 10:15

 Collection Date/Time:
 03/20/2018 14:20

Analysis Report

Chevron ELLE Sample #: SW 9520229 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS 10237 10237 10237 10237	Volatiles Benzene Ethylbenzene Naphthalene Toluene	SW-846 8260	B 71-43-2 100-41-4 91-20-3 108-88-3	mg/kg N.D. N.D. 0.33 N.D.	mg/kg 0.029 0.058 0.058 0.058	51.02 51.02 51.02 51.02
10237 Repo	Xylene (Total) rting limits were raised due		1330-20-7 n the sample matrix	N.D. x.	0.058	51.02
GC Vol 01725	atiles TPH-GRO N. CA soil C6-(SW-846 8015	B modified n.a.	mg/kg 87	mg/kg 4.5	198.41
GC Mis 10941	TPH-DRO soil C10-C28 n The holding time was not data reported.		n.a.	mg/kg 56 Ј	mg/kg 4.6	1
	roleum arbons	SW-846 8015	B modified	mg/kg	mg/kg	
that o	Total TPH TPH Motor Oil C16-C36 quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in	a range that include		11 11	1 1
	roleum arbons w/Si	SW-846 8015	βB	mg/kg	mg/kg	
02222	TPH-DRO soil C10-C28 w The reverse surrogate, ca The holding time was not data reported.	pric acid, is preser		52 J	4.6	1
Wet Ch	emistry	SM 2540 G-1 %Moisture C		%	%	
00111	Moisture Moisture represents the lo 103 - 105 degrees Celsius as-received basis.				0.50	1

Sample Comments

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Analysis Report

Sample Description:	MW-2-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520229 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 14:20		

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
10237 06646	BTEX/Naphthalene - Soil GC/MS HL Bulk Sample Prep	SW-846 8260B SW-846 5035A Modified	1 1	Q180881AA 201808649321	03/29/2018 21:01 03/27/2018 09:14	Stephen C Nolte Anastasia K Jaynes	51.02 n.a.				
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18089B34A	03/31/2018 06:45	Jeremy C Giffin	198.41				
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201808649321	03/27/2018 09:14	Anastasia K Jaynes	n.a.				
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 04:05	Thomas C Wildermuth	1				
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 21:07	Timothy M Emrick	1				
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 22:52	Thomas C Wildermuth	1				
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1				
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1				
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1				
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18086820001A	03/27/2018 12:09	Larry E Bevins	1				

Page 18 of 58



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Analysis Report

Sample Description: MW-2-S-12-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2		V-2	Chevron ELLE Sample #: SW 9520230 ELLE Group #: 1922999 Matrix: Soil
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 14:30		
CAT No. Analysis Name	CAS Number	Dry Result	Dry Method Dilution Detection Limit Factor
	SW-846 8260B 71-43-2 100-41-4 91-20-3 108-88-3 1330-20-7 nple surrogate(s) is outside the QC ed on the QC Summary. Sufficient sample eat the analysis.	mg/kg N.D. N.D. 2.0 J N.D. N.D.	mg/kg0.03356.430.06656.430.06656.430.06656.430.06656.43
GC Volatiles	SW-846 8015B modified	mg/kg	mg/kg
01725 TPH-GRO N. CA	soil C6-C12 n.a.	510	19 827.81
	SW-846 8015B 10-C28 microwave n.a. was not met. The client was notified and the	mg/kg 140 J e	mg/kg 4.6 1
GC Petroleum Hydrocarbons	SW-846 8015B modified	mg/kg	mg/kg
02516 Total TPH 02516 TPH Motor Oil C TPH quantitation is base that of a hydrocarbon co	n.a. 16-C36 n.a. ed on peak area comparison of the sample p imponent mix calibration in a range that inclu 240 (n-tetracontane) normal hydrocarbons.		12 1 12 1
GC Petroleum Hydrocarbons w/Si	SW-846 8015B	mg/kg	mg/kg
data reported.	10-C28 w/Si Gel n.a. was not met. The client was notified and the ogate, capric acid, is present at 1.0%.	130 J e	4.6 1
Wet Chemistry	SM 2540 G-1997 %Moisture Calc	%	%
	n.a. nts the loss in weight of the sample after ove s Celsius. The moisture result reported is or		0.50 1

Sample Comments

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Analysis Report

Sample Description:	MW-2-S-12-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520230 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 14:30		

	Laboratory Sample Analysis Record											
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor					
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	Q180881AA	03/30/2018 00:09	Stephen C Nolte	56.43					
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 14:30	Client Supplied	1					
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 14:30	Client Supplied	1					
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 14:30	Client Supplied	1					
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 06:45	Jeremy C Giffin	827.81					
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 14:30	Client Supplied	n.a.					
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 04:45	Thomas C Wildermuth	1					
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 21:28	Timothy M Emrick	1					
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 23:12	Thomas C Wildermuth	1					
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1					
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1					
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1					
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1					



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Sample Description: MW-2-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 14:40

Analysis Report

Chevron ELLE Sample #: SW 9520231 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	B	mg/kg	mg/kg	
10237	Benzene		71-43-2	N.D.	0.0004	0.76
10237	Ethylbenzene		100-41-4	N.D.	0.0009	0.76
10237	Naphthalene		91-20-3	N.D.	0.0009	0.76
10237	Toluene		108-88-3	N.D.	0.0009	0.76
10237	Xylene (Total)		1330-20-7	N.D.	0.0009	0.76
GC Vol	atiles	SW-846 8015	B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6-0	C12	n.a.	N.D.	0.4	18.09
GC Mis	cellaneous	SW-846 8015	B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28 m		n.a.	N.D. UJ	4.6	1
	The holding time was not data reported.					
GC Pet	roleum	SW-846 8015	B modified	mg/kg	mg/kg	
Hydroc	arbons					
02516	Total TPH		n.a.	N.D.	11	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.	11	1
that o	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-teti	mix calibration in	a range that include			
GC Pet Hydroc	roleum arbons w/Si	SW-846 8015	iВ	mg/kg	mg/kg	
02222	TPH-DRO soil C10-C28 w The reverse surrogate, ca		n.a. nt at <1%	N.D. UJ	4.6	1
	The holding time was not data reported.					
Wet Ch	emistry	SM 2540 G-1	997	%	%	
	-	%Moisture C	alc			
00111	Moisture		n.a.	13.4	0.50	1
	Moisture represents the lo	ss in weight of the				
	103 - 105 degrees Celsius as-received basis.					

Sample Comments

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	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				



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Analysis Report

Sample Description:	MW-2-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-2	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520231 1922999
Project Name:	90955		
Submittal Date/Time:	03/23/2018 10:15		
Collection Date/Time:	03/20/2018 14:40		

	Laboratory Sample Analysis Record										
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor				
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 19:10	Jennifer K Howe	0.76				
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 14:40	Client Supplied	1				
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 14:40	Client Supplied	1				
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 01:41	Jeremy C Giffin	18.09				
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 14:40	Client Supplied	n.a.				
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/08/2018 23:44	Thomas C Wildermuth	1				
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 16:06	Timothy M Emrick	1				
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 23:32	Thomas C Wildermuth	1				
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1				
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1				
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1				
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1				



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Sample Description: MW-3-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 13:30

Analysis Report

Chevron ELLE Sample #: SW 9520232 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name	CAS Nun	Dry nber Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237 10237 10237 10237 10237	Benzene Ethylbenzene Naphthalene Toluene Xylene (Total)	71-43-2 100-41-4 91-20-3 108-88-3 1330-20-7	N.D. N.D. N.D. N.D. 7 N.D.	0.0008 0.002 0.002 0.002 0.002	1.34 1.34 1.34 1.34 1.34
GC Vo	latiles	SW-846 8015B modif	fied mg/kg	mg/kg	
01725	TPH-GRO N. CA soil C6		N.D.	10	430.29
GC Mis	scellaneous	SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28	microwave n.a. t met. The client was notified a	N.D. UJ and the	4.8	1
	troleum carbons	SW-846 8015B modif	fied ^{mg/kg}	mg/kg	
02516 02516 TPH that c	Total TPH TPH Motor Oil C16-C36 quantitation is based on po f a hydrocarbon compone	n.a. n.a. eak area comparison of the sar nt mix calibration in a range tha etracontane) normal hydrocarb	at includes	12 12	1 1
GC Pe	troleum	SW-846 8015B	mg/kg	mg/kg	
Hydrod	carbons w/Si				
02222		w/Si Gel n.a. capric acid, is present at <1%. t met. The client was notified a	N.D. UJ	4.8	1
Wet Cl	nemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111		n.a. loss in weight of the sample af us. The moisture result reporte		0.50	1

Sample Comments

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Analysis Report

Sample Description:	MW-3-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520232 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 13:30		

		Labor	atory S	Sample Analysis	s Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	A180872AA	03/29/2018 01:04	Stephen C Nolte	1.34
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 13:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 13:30	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 08:00	Jeremy C Giffin	430.29
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 13:30	Client Supplied	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 03:24	Thomas C Wildermuth	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 20:02	Timothy M Emrick	1
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 17:51	Thomas C Wildermuth	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1



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Sample Description: MW-3-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 13:40

Analysis Report

Chevron ELLE Sample #: SW 9520233 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result	t	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	В	mg/kg		mg/kg	
10237	Benzene		71-43-2	N.D.		0.0004	0.73
10237	Ethylbenzene		100-41-4	N.D.		0.0009	0.73
10237	Naphthalene		91-20-3	N.D.		0.0009	0.73
10237	Toluene		108-88-3	N.D.		0.0009	0.73
10237	Xylene (Total)		1330-20-7	N.D.		0.0009	0.73
GC Vol	atiles	SW-846 8015	B modified	mg/kg		mg/kg	
01725	TPH-GRO N. CA soil C6-0	C12	n.a.	N.D.		0.5	20.66
GC Mis	cellaneous	SW-846 8015	В	mg/kg		mg/kg	
10941	TPH-DRO soil C10-C28 m	nicrowave	n.a.	N.D.	UJ	4.7	1
	The holding time was not data reported.		is notified and the				
GC Pet		SW-846 8015	B modified	mg/kg		mg/kg	
Hydroc	arbons						
02516	Total TPH		n.a.	N.D.	UJ	12	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.	UJ	12	1
that o	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in	a range that include				
GC Pet Hydroc	roleum arbons w/Si	SW-846 8015	В	mg/kg		mg/kg	
02222	TPH-DRO soil C10-C28 w The reverse surrogate, ca The holding time was not data reported.	pric acid, is preser		N.D.	UJ	4.7	1
Wet Ch	emistry	SM 2540 G-1 %Moisture C		%		%	
00111	Moisture		n.a.	14.9		0.50	1
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.		sample after oven o	drying at			

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	



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Analysis Report

Sample Description:	MW-3-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3
Project Name:	90955

Submittal Date/Time: Collection Date/Time: 03/23/2018 10:15 03/20/2018 13:40 Chevron ELLE Sample #: SW ELLE Group #: 192 Matrix: Soil

SW 9520233 1922999

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	A180872AA	03/29/2018 01:27	Stephen C Nolte	0.73	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 13:40	Client Supplied	1	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 13:40	Client Supplied	1	
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 13:40	Client Supplied	1	
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 02:19	Jeremy C Giffin	20.66	
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 13:40	Client Supplied	n.a.	
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 00:04	Thomas C Wildermuth	1	
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 18:15	Timothy M Emrick	1	
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 18:11	Thomas C Wildermuth	1	
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1	
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1	
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1	



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Sample Description: MW-3-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3

03/20/2018 15:50

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time:

Analysis Report

Chevron ELLE Sample #: SW 9520234 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	B	mg/kg		mg/kg	
10237	Benzene		71-43-2	0.002		0.0004	0.71
10237	Ethylbenzene		100-41-4	0.001		0.0008	0.71
10237	Naphthalene		91-20-3	0.015		0.0008	0.71
10237	Toluene		108-88-3	0.0009		0.0008	0.71
10237	Xylene (Total)		1330-20-7	N.D.		0.0008	0.71
GC Vo	latiles	SW-846 8015	B modified	mg/kg		mg/kg	
01725	TPH-GRO N. CA soil C6-0	C12	n.a.	N.D.		0.6	24.13
GC Mis	scellaneous	SW-846 8015	B	mg/kg		mg/kg	
10941	TPH-DRO soil C10-C28 m		n.a.	N.D.	UJ	4.8	1
	The holding time was not data reported.						
GC Pet	troleum	SW-846 8015	B modified	mg/kg		mg/kg	
Hydroo	carbons						
02516	Total TPH		n.a.	N.D.		12	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.		12	1
that c	quantitation is based on pea f a hydrocarbon component -octane) through C40 (n-tet	mix calibration in	a range that include				
GC Pet	troleum	SW-846 8015	B	mg/kg		mg/kg	
Hydrod	carbons w/Si						
02222	TPH-DRO soil C10-C28 w The reverse surrogate, ca The holding time was not data reported.	pric acid, is preser		N.D.	UJ	4.8	1
Wet Ch	nemistry	SM 2540 G-1 %Moisture C		%		%	
00111	Moisture		n.a.	16.0		0.50	1
	Moisture represents the lo 103 - 105 degrees Celsius as-received basis.						

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	



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Sample Description:	MW-3-S-10-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520234 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/20/2018 15:50		

		Labor	atory S	ample Analysis	Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 20:19	Jennifer K Howe	0.71
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 15:50	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 15:50	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18089B34A	03/31/2018 06:10	Jeremy C Giffin	24.13
01150	GC - Bulk Soil Prep	SW-846 5035A Modified	1	201808649321	03/27/2018 09:16	Anastasia K Jaynes	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 00:24	Thomas C Wildermuth	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 19:19	Timothy M Emrick	1
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 18:31	Thomas C Wildermuth	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1



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Sample Description: MW-3-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3

Project Name: 90955 Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 16:00

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520235 1922999

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0004	0.66
10237	Ethylbenzene	100-41-4	N.D.	0.0008	0.66
10237	Naphthalene	91-20-3	N.D.	0.0008	0.66
10237	Toluene	108-88-3	N.D.	0.0008	0.66
10237	Xylene (Total)	1330-20-7	N.D.	0.0008	0.66
GC Vo	latiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA soil (C6-C12 n.a.	N.D.	0.5	20.53
GC Mis	scellaneous	SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C2 The holding time was r data reported.	8 microwave n.a. not met. The client was notified and the	n.d. UJ	4.7	1
GC Pet	troleum	SW-846 8015B modified	mg/kg	mg/kg	
Hvdroo	carbons				
02516	Total TPH	n.a.	N.D.	12	1
02516	TPH Motor Oil C16-C3		N.D.	12	1
that c	f a hydrocarbon compon	peak area comparison of the sample pa ent mix calibration in a range that incluc tetracontane) normal hydrocarbons.			
	troleum carbons w/Si	SW-846 8015B	mg/kg	mg/kg	
02222		8 w/Si Gel n.a. , capric acid, is present at <1%. not met. The client was notified and the	N.D. UJ	4.7	1
Wet Ch	nemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111	Moisture	n.a.	14.9	0.50	1
		e loss in weight of the sample after over sius. The moisture result reported is on			

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		



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Analysis Report

Sample Description:	MW-3-S-15-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-3	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520235 1922999
Project Name:	90955		
Submittal Date/Time:	03/23/2018 10:15		
Collection Date/Time:	03/20/2018 16:00		

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 20:42	Jennifer K Howe	0.66	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 16:00	Client Supplied	1	
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 16:00	Client Supplied	1	
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 02:57	Jeremy C Giffin	20.53	
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 16:00	Client Supplied	n.a.	
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 00:44	Thomas C Wildermuth	1	
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 16:27	Timothy M Emrick	1	
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 19:32	Thomas C Wildermuth	1	
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1	
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1	
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1	



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Sample Description: MW-4-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 11:30

Analysis Report

Chevron ELLE Sample #: SW 9520236 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name	CAS Nu	Dry mber Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0005	0.92
10237	Ethylbenzene	100-41-4		0.001	0.92
10237	Naphthalene	91-20-3	N.D.	0.001	0.92
10237	Toluene	108-88-3		0.001	0.92
10237	Xylene (Total)	1330-20	-7 N.D.	0.001	0.92
GC Vo	atiles	SW-846 8015B mod	ified ^{mg/kg}	mg/kg	
01725	TPH-GRO N. CA soil C	6-C12 n.a.	N.D.	0.5	22.44
GC Mis	cellaneous	SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10-C28	3 microwave n.a.	4.6 J	4.2	1
	The holding time was n data reported.	ot met. The client was notified	and the		
GC Pet	roleum	SW-846 8015B mod	ified mg/kg	mg/kg	
Hydrod	arbons				
02516	Total TPH	n.a.	N.D.	10	1
02516	TPH Motor Oil C16-C36	S n.a.	N.D.	10	1
that o	f a hydrocarbon compone	beak area comparison of the sa ent mix calibration in a range th tetracontane) normal hydrocarl	nat includes		
	roleum carbons w/Si	SW-846 8015B	mg/kg	mg/kg	
02222	The holding time was n	3 w/Si Gel n.a. capric acid, is present at <1%. ot met. The client was notified	N.D. UJ and the	4.2	1
	data reported.				
Wet Ch	nemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111	Moisture	n.a.	4.8	0.50	1
		e loss in weight of the sample a ius. The moisture result report			

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	



Collection Date/Time:

Lancaster Laboratories Environmental

03/20/2018 11:30

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Analysis Report

SW 9520236

1922999

Sample Description:	MW-4-S-3-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil
Project Name:	90955	Matrix. Soli
Submittal Date/Time:	03/23/2018 10:15	

	Laboratory Sample Analysis Record						
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 21:06	Jennifer K Howe	0.92
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 11:30	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 11:30	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 11:30	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 08:38	Jeremy C Giffin	22.44
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 11:30	Client Supplied	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 03:44	Thomas C Wildermuth	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 19:41	Timothy M Emrick	1
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 19:52	Thomas C Wildermuth	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1



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Sample Description: MW-4-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/20/2018 11:40

Analysis Report

Chevron ELLE Sample #: SW 9520237 ELLE Group #: 1922999 Matrix: Soil

CAT No.	Analysis Name		CAS Number	Dry Result		Dry Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260	0B	mg/kg		mg/kg	
10237	Benzene		71-43-2	N.D.		0.0005	0.91
10237	Ethylbenzene		100-41-4	N.D.		0.001	0.91
10237	Naphthalene		91-20-3	N.D.		0.001	0.91
10237	Toluene		108-88-3	N.D.		0.001	0.91
10237	Xylene (Total)		1330-20-7	N.D.		0.001	0.91
GC Vo	latiles	SW-846 801	5B modified	mg/kg		mg/kg	
01725	TPH-GRO N. CA soil C6-	C12	n.a.	N.D.		0.5	23.41
GC Mis	scellaneous	SW-846 801	5B	mg/kg		mg/kg	
10941	TPH-DRO soil C10-C28 r The holding time was not data reported.		n.a. as notified and the	N.D.	UJ	4.3	1
GC Pe	troleum	SW-846 801	5B modified	mg/kg		mg/kg	
Hydro	carbons						
02516	Total TPH		n.a.	N.D.		11	1
02516	TPH Motor Oil C16-C36		n.a.	N.D.		11	1
that o	quantitation is based on pea of a hydrocarbon componen -octane) through C40 (n-tel	t mix calibration in	a range that include				
	troleum carbons w/Si	SW-846 801	5B	mg/kg		mg/kg	
02222	TPH-DRO soil C10-C28 v The reverse surrogate, ca The holding time was not data reported.	apric acid, is prese		N.D.	UJ	4.3	1
Wet CI	nemistry	SM 2540 G-1 %Moisture C		%		%	
00111	Moisture		n.a.	7.8		0.50	1
	Moisture represents the lo 103 - 105 degrees Celsiu as-received basis.				:		

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	



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Analysis Report

Sample Description:	MW-4-S-5-180320 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4
Project Name:	90955

Submittal Date/Time: Collection Date/Time: 03/23/2018 10:15 03/20/2018 11:40 Chevron ELLE Sample #: SW ELLE Group #: 192 Matrix: Soil

SW 9520237 1922999

	Laboratory Sample Analysis Record						
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 21:29	Jennifer K Howe	0.91
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/20/2018 11:40	Client Supplied	1
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/20/2018 11:40	Client Supplied	1
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/20/2018 11:40	Client Supplied	1
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 04:13	Jeremy C Giffin	23.41
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/20/2018 11:40	Client Supplied	n.a.
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 03:04	Thomas C Wildermuth	1
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 16:49	Timothy M Emrick	1
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 20:12	Thomas C Wildermuth	1
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1



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Analysis Report

Sample Description: MW-4-S-10-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4		-4	Chevron ELLE Sam ELLE Grou Matrix: So	ip #: 1922999	
Projec	t Name:	90955			
	ttal Date/Time: ion Date/Time:	03/23/2018 10:15 03/21/2018 08:15			
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	S Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0004	0.68
10237	Ethylbenzene	100-41-4	N.D.	0.0008	0.68
10237	Naphthalene	91-20-3	N.D.	0.0008	0.68
10237	Toluene	108-88-3	N.D.	0.0008	0.68
10237	Xylene (Total)	1330-20-7	N.D.	0.0008	0.68
	latilaa	SW 946 904ED modified	mg/kg	mg/kg	
01725	l atiles TPH-GRO N. CA so	SW-846 8015B modified			17.66
01725	TPH-GRU N. CA SC	bil C6-C12 n.a.	N.D.	0.4	17.00
GC Mi	scellaneous	SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10- The holding time wa data reported.	-C28 microwave n.a. as not met. The client was notified and the	N.D. UJ	4.8	1
GC Pe	troleum	SW-846 8015B modified	mg/kg	mg/kg	
Hydro	carbons				
02516	Total TPH	n.a.	N.D.	12	1
02516	TPH Motor Oil C16-	-C36 n.a.	N.D.	12	1
that of	of a hydrocarbon com	on peak area comparison of the sample par ponent mix calibration in a range that includ I (n-tetracontane) normal hydrocarbons.			
	troleum carbons w/Si	SW-846 8015B	mg/kg	mg/kg	
02222	TPH-DRO soil C10- The reverse surroga	-C28 w/Si Gel n.a. ate, capric acid, is present at <1%. as not met. The client was notified and the	n.d. UJ	4.8	1
Wet C	hemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111		n.a. s the loss in weight of the sample after over Celsius. The moisture result reported is on a		0.50	1

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	



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Sample Description:	MW-4-S-10-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4	Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520238 1922999
Project Name:	90955		
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/21/2018 08:15		

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 21:52	Jennifer K Howe	0.68		
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/21/2018 08:15	Client Supplied	1		
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/21/2018 08:15	Client Supplied	1		
07579	GC/MS-5g Field Preserv.MeOH-NC	SW-846 5035A	1	201808349313	03/21/2018 08:15	Client Supplied	1		
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 04:51	Jeremy C Giffin	17.66		
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/21/2018 08:15	Client Supplied	n.a.		
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 02:44	Thomas C Wildermuth	1		
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 17:10	Timothy M Emrick	1		
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 20:33	Thomas C Wildermuth	1		
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1		
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1		
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1		
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18082820004A	03/24/2018 00:48	Scott W Freisher	1		



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Analysis Report

Sampl	e Description:	MW-4-S-15-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW	-4	Chevron ELLE Samp ELLE Grou Matrix: Soi	p #: 1922999
Projec	t Name:	90955		Matrix. Sol	1
	tal Date/Time: ion Date/Time:	03/23/2018 10:15 03/21/2018 08:35			
CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	S Volatiles	SW-846 8260B	mg/kg	mg/kg	
10237	Benzene	71-43-2	N.D.	0.0004	0.73
10237	Ethylbenzene	100-41-4	N.D. N.D.	0.0004	0.73
10237	Naphthalene	91-20-3	N.D. N.D.	0.0009	0.73
10237	Toluene	108-88-3	N.D. N.D.	0.0009	0.73
10237	Xylene (Total)	1330-20-7	N.D.	0.0009	0.73
	latiles	SW-846 8015B modified	mg/kg	mg/kg	
01725	TPH-GRO N. CA s	oil C6-C12 n.a.	N.D.	0.5	20.39
GC Mi	scellaneous	SW-846 8015B	mg/kg	mg/kg	
10941	TPH-DRO soil C10		N.D. UJ	4.8	1
GC Pe	troleum	SW-846 8015B modified	mg/kg	mg/kg	
Hydro	carbons				
02516	Total TPH	n.a.	N.D.	12	1
02516	TPH Motor Oil C16		N.D.	12	1
TPH that o	quantitation is based of a hydrocarbon com	on peak area comparison of the sample par ponent mix calibration in a range that includ 0 (n-tetracontane) normal hydrocarbons.	tern to	12	·
	troleum carbons w/Si	SW-846 8015B	mg/kg	mg/kg	
02222	TPH-DRO soil C10 The reverse surrog	0-C28 w/Si Gel n.a. jate, capric acid, is present at <1%. /as not met. The client was notified and the	N.D. UJ	4.8	1
Wet Cl	hemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111	Moisture	n.a.	17.5	0.50	1
	Moisture represent	is the loss in weight of the sample after over Celsius. The moisture result reported is on a	drying at		

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	



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Sample Description: MW-4-S-15-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA MW-4		Chevron ELLE Sample #: ELLE Group #: Matrix: Soil	SW 9520239 1922999	
Project Name:	90955			
Submittal Date/Time: Collection Date/Time:	03/23/2018 10:15 03/21/2018 08:35			

	Laboratory Sample Analysis Record									
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor			
10237	BTEX/Naphthalene - Soil	SW-846 8260B	1	X180871AA	03/28/2018 22:15	Jennifer K Howe	0.73			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	1	201808349313	03/21/2018 08:35	Client Supplied	1			
02392	GC/MS - Field Preserved NaHSO4	SW-846 5035A	2	201808349313	03/21/2018 08:35	Client Supplied	1			
01725	TPH-GRO N. CA soil C6-C12	SW-846 8015B modified	1	18085A16A	03/27/2018 05:29	Jeremy C Giffin	20.39			
06647	GC-5g Field Preserved MeOH	SW-846 5035A	1	201808349313	03/21/2018 08:35	Client Supplied	n.a.			
10941	TPH-DRO soil C10-C28 microwave	SW-846 8015B	1	180950001A	04/09/2018 01:44	Thomas C Wildermuth	1			
02516	TPH Fuels by GC (Soils)	SW-846 8015B modified	1	180890013A	04/02/2018 17:32	Timothy M Emrick	1			
02222	TPH-DRO soil C10-C28 w/Si Gel	SW-846 8015B	1	180950002A	04/12/2018 20:52	Thomas C Wildermuth	1			
11210	DRO by 8015 Microwave w/ SG	SW-846 3546	1	180950002A	04/05/2018 18:50	Sally L Appleyard	1			
10942	Microwave Extraction-DRO soils	SW-846 3546	1	180950001A	04/05/2018 18:50	Sally L Appleyard	1			
11218	TPH Fuels Soils Extraction	SW-846 3550B	1	180890013A	03/30/2018 18:20	Sally L Appleyard	1			
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1			



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Sample Description: HA-1-S-3-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA HA-1

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/21/2018 10:02

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520240 1922999

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg		
10724	Acenaphthene	83-32-9	N.D.	0.004	1	
10724	Acenaphthylene	208-96-8	N.D.	0.004	1	
10724	Anthracene	120-12-7	N.D.	0.004	1	
10724	Benzo(a)anthracene	56-55-3	0.004	0.004	1	
10724	Benzo(a)pyrene	50-32-8	0.005	0.004	1	
10724	Benzo(b)fluoranthene	205-99-2	0.006	0.004	1	
10724	Benzo(g,h,i)perylene	191-24-2	0.007	0.004	1	
10724	Benzo(k)fluoranthene	207-08-9	0.005	0.004	1	
10724	Chrysene	218-01-9	0.007	0.004	1	
10724	Dibenz(a,h)anthracene	53-70-3	0.004	0.004	1	
10724	Fluoranthene	206-44-0	0.005	0.004	1	
10724	Fluorene	86-73-7	N.D.	0.004	1	
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.005	0.004	1	
10724	Naphthalene	91-20-3	N.D.	0.004	1	
10724	Phenanthrene	85-01-8	N.D.	0.004	1	
10724	Pyrene	129-00-0	0.006	0.004	1	
Wet Ch	emistry	SM 2540 G-1997 %Moisture Calc	%	%		
00111		n.a. loss in weight of the sample after over us. The moisture result reported is on		0.50	1	

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record							
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor	
10724	PAH's 8270C Soil	SW-846 8270C	1	18085SLB026	03/27/2018 07:20	Anthony P Bauer	1	
10814	BNA Soil Microwave PAH	SW-846 3546	1	18085SLB026	03/26/2018 17:00	Elizabeth E Donovan	1	
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1	



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Sample Description: HA-1-S-8-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA HA-1

Project Name: 90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/21/2018 10:05

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520241 1922999

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor
GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg	
10724	Acenaphthene	83-32-9	N.D.	0.004	1
0724	Acenaphthylene	208-96-8	N.D.	0.004	1
0724	Anthracene	120-12-7	N.D.	0.004	1
0724	Benzo(a)anthracene	56-55-3	N.D.	0.004	1
0724	Benzo(a)pyrene	50-32-8	N.D.	0.004	1
10724	Benzo(b)fluoranthene	205-99-2	0.004	0.004	1
10724	Benzo(g,h,i)perylene	191-24-2	0.004	0.004	1
10724	Benzo(k)fluoranthene	207-08-9	0.004	0.004	1
0724	Chrysene	218-01-9	0.004	0.004	1
0724	Dibenz(a,h)anthracene	53-70-3	N.D.	0.004	1
0724	Fluoranthene	206-44-0	N.D.	0.004	1
0724	Fluorene	86-73-7	N.D.	0.004	1
0724	Indeno(1,2,3-cd)pyrene	193-39-5	N.D.	0.004	1
0724	Naphthalene	91-20-3	N.D.	0.004	1
10724	Phenanthrene	85-01-8	N.D.	0.004	1
0724	Pyrene	129-00-0	N.D.	0.004	1
let Cl	nemistry	SM 2540 G-1997 %Moisture Calc	%	%	
00111		n.a. loss in weight of the sample after ove ls. The moisture result reported is on		0.50	1

Sample Comments

CA ELAP Lab Certification No. 2792

	Laboratory Sample Analysis Record								
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor		
10724	PAH's 8270C Soil	SW-846 8270C	1	18085SLB026	03/27/2018 07:44	Anthony P Bauer	1		
10814	BNA Soil Microwave PAH	SW-846 3546	1	18085SLB026	03/26/2018 17:00	Elizabeth E Donovan	1		
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1		



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Sample Description: HA-2-S-3-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA HA-2

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/21/2018 10:00

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520242 1922999

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg		
10724	Acenaphthene	83-32-9	N.D.	0.004	1	
10724	Acenaphthylene	208-96-8	N.D.	0.004	1	
10724	Anthracene	120-12-7	N.D.	0.004	1	
10724	Benzo(a)anthracene	56-55-3	0.005	0.004	1	
10724	Benzo(a)pyrene	50-32-8	0.007	0.004	1	
10724	Benzo(b)fluoranthene	205-99-2	0.011	0.004	1	
10724	Benzo(g,h,i)perylene	191-24-2	0.009	0.004	1	
10724	Benzo(k)fluoranthene	207-08-9	0.006	0.004	1	
10724	Chrysene	218-01-9	0.011	0.004	1	
10724	Dibenz(a,h)anthracene	53-70-3	0.005	0.004	1	
10724	Fluoranthene	206-44-0	0.009	0.004	1	
10724	Fluorene	86-73-7	N.D.	0.004	1	
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.007	0.004	1	
10724	Naphthalene	91-20-3	0.005	0.004	1	
10724	Phenanthrene	85-01-8	0.011	0.004	1	
10724	Pyrene	129-00-0	0.011	0.004	1	
Wet Ch	emistry	SM 2540 G-1997 %Moisture Calc	%	%		
00111		n.a. oss in weight of the sample after over is. The moisture result reported is on		0.50	1	

Sample Comments

CA ELAP Lab Certification No. 2792

		Lab	oratory S	Sample Analysis	s Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10724	PAH's 8270C Soil	SW-846 8270C	1	18085SLB026	03/27/2018 08:08	Anthony P Bauer	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	18085SLB026	03/26/2018 17:00	Elizabeth E Donovan	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1



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Sample Description: HA-2-S-8-180321 Grab Soil Facility# 90955 BBLW 1200 Park St-Alameda NA HA-2

90955

Submittal Date/Time: 03/23/2018 10:15 Collection Date/Time: 03/21/2018 10:10

Analysis Report

Chevron ELLE Sample #: ELLE Group #: Matrix: Soil

SW 9520243 1922999

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Dilution Factor	
GC/MS	Semivolatiles	SW-846 8270C	mg/kg	mg/kg		
10724	Acenaphthene	83-32-9	N.D.	0.004	1	
10724	Acenaphthylene	208-96-8	N.D.	0.004	1	
10724	Anthracene	120-12-7	N.D.	0.004	1	
10724	Benzo(a)anthracene	56-55-3	0.004	0.004	1	
10724	Benzo(a)pyrene	50-32-8	0.005	0.004	1	
10724	Benzo(b)fluoranthene	205-99-2	0.006	0.004	1	
10724	Benzo(g,h,i)perylene	191-24-2	0.007	0.004	1	
10724	Benzo(k)fluoranthene	207-08-9	0.005	0.004	1	
10724	Chrysene	218-01-9	0.011	0.004	1	
10724	Dibenz(a,h)anthracene	53-70-3	0.004	0.004	1	
10724	Fluoranthene	206-44-0	0.006	0.004	1	
10724	Fluorene	86-73-7	N.D.	0.004	1	
10724	Indeno(1,2,3-cd)pyrene	193-39-5	0.004	0.004	1	
10724	Naphthalene	91-20-3	0.016	0.004	1	
10724	Phenanthrene	85-01-8	0.007	0.004	1	
10724	Pyrene	129-00-0	0.007	0.004	1	
Wet Ch	iemistry	SM 2540 G-1997 %Moisture Calc	%	%		
00111	Moisture	n.a.	11.5	0.50	1	
		oss in weight of the sample after over s. The moisture result reported is on				

Sample Comments

CA ELAP Lab Certification No. 2792

		Lab	oratory S	Sample Analysis	s Record		
CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10724	PAH's 8270C Soil	SW-846 8270C	1	18085SLB026	03/27/2018 08:32	Anthony P Bauer	1
10814	BNA Soil Microwave PAH	SW-846 3546	1	18085SLB026	03/26/2018 17:00	Elizabeth E Donovan	1
00111	Moisture	SM 2540 G-1997 %Moisture Calc	1	18085820005B	03/26/2018 23:15	Scott W Freisher	1

APPENDIX F

Historical Data from Previous Site Investigation

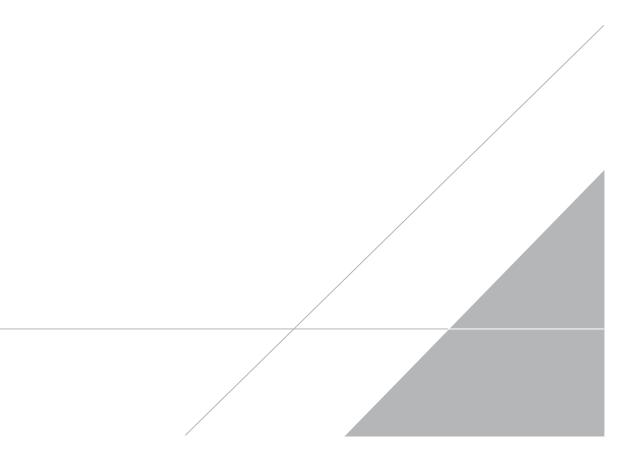


TABLE 1 SUIMMARY OF SDILSAMPLE ANALYTICAL RESULTS - METALS 1200 PARK STREET, ALAMEDA, CALIFORNIA

			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Capper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
Sample ID	Sample Depth (feet bsg]	Area of Concern								EPA Method 6010B	54 6010B				1				EPA Method 7471A
									Sample Da	ate: April 17, 20	016; results in	Sample Date: April 17, 2016; results in miligrams per kilogram	kilogram						
81-10'	10	Hoist	<2.0	<2.0	46	<0.40	<0.40	45	2.7	6.5	23	<2.0	R	<5.0	<2.0	<5.0	27	20	<0.013
82-11.5'	115	Hoist	<2.0	<2.0	51	<0.40	<0.40	4	4.6	6,5	2.3	<2.0	Ħ	<5.0	<2.0	<5.0	28	21	<0.013
11-68	1	Hoist	<2.0	<2.0	37	<0.40	<0.40	45	3.7	5.6	<2.0	<2.0	29	<5.0	<2.0	<5.0	33	19	<0.013
84-10'	10	Waste Oil Tank	<2.0	<2.0	48	<0.40	<0.40	48	4.2	7.3	2.3	<2.0	35	<5.0	<2.0	<5.0	32	23	<0.013
85-10'	10	Hoist	<2.0	<2.0	49	<0.40	<0.40	29	3.7	5.9	2.1	<2.0	31	<5.0	<2.0	<5.0	23	17	<0.013
B6-10.5'	10.5	Concrete Cutaut	<2.0	<2.0	39	<0.40	<0.40	48	3.7	5.7	2.6	<2.0	29	<5,0	<2.0	<5.0	31	17	<0.013
87-10'	10	Gas Station	NA	NA	NA	NA	<0.40	40	NA	NA	<2.0	NA	22	NA	NA	NA	NA	19	NA
88-10'	10	Gas Station	NA	NA	NA	NA	<0.40	41	NA	NA	3.9	MA	32	NA	NA	NA	NA	21	NA
89-10'	10	Gas Station	MA	MA	NA	NA	<0.40	45	NA	NA	3.4	NA	28	NA	NA	NA	NA	21	NA
B10-10'	10	Gas Station	<2.0	<2.0	51	<0.40	<0.40	58	1.7	1.7	5.1	<2.0	26	<5.0	<2.0	<5.0	23	23	<0.013
B11-10'	10	Gas Station	MA	NA	NA	NA	<0.40	37	NA	NA	2.5	MA	30	NA	NA	NA	NA	19	NA
B12-20'	10	Gas Station	<2.0	25	410	<0.40	<0.40	42	4.8	20	39	<2.0	44	<5.0	<2.0	<5.0	26	130	0:090
ESL (COMMERC	CIAL/INCUSTRIAL, SHA	ESL (COMMERCIAL, INCUSTRIAL, SHALIOW, \$10 FEET BSG)	470	0.31	220,000	2,200	280	1,800,000*	350	47,000	160	5,300	11,000	5,800	5,800	12	600,000	350,000	190
	SL (RESIDENTIAL, SHA	ESL (RESIDENTIAL, SHALLOW, \$10 FEET 85G)	31	0.057	15,000	150	39	120,000*	23	3,100	80	OGE	820	665	06E	C.78	140,000	23,000	13
ESL (ANV LAND USE/ANY DEPTH: CONSTRUCTION WORKER EXPOSURE)	PTH: CONSTRUCTION	WORKER EXPOSURE)	140	66.0	67,030	180	110	\$30,000*	49	14,000	160	1,300	1,700	1,800	1,800	3.5	220,000	110,000	23
<u>Notes:</u> bsg = be'ow surface grade																			

bog - economicatione bog - detected concentration is above laboratory reporting limits Shading = detected concentration is above one one more £SLs fSLs = Environmental Screening Levels, SF Eav Region of the California Warer Quality Control Board, February 2016

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TABLE 2 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - TPH AND VOCS 1200 PARK STREET, ALAMEDA, CALIFORNIA

	Counte Denth		TPHE	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Acetone	n-Propylbenzene	n-Propylbenzene Isopropylbenzere	1,3,5- Trimethylbenzene Trimethylbenzene	1,2,4- Trimethylbenzene	tert-Butylbentene	Naphthalene	Other VOCs
SampleID	(leet bsg)	Area of Concern		EPA Method 80158								EPA Method 82608	36	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		No. of Street,		
									Sample Dat	Sample Date: April 17, 2016; results in milligrams per kilogram	esults in miligram	ts per kilogram						
101-10	10	Hoist	011>	<10	<10	NA.	AN	NA	AN	NA	AN	NA	MA	NA	VN	NA	NA	NA
82-11.5"	115	Hoist	<1.0	<10	40	MA	NA	NA	NA	NA	NA	NA	MA	NA	W	NA	NA	NA
B3-11 [']	g	Hoist	4.0	410	6	NA	NA	NA	AN	NA	VN	NA	RA.	NA	ž	M	NA	NA
B4-10'	10	Waste Ofl Tank	<1.0	410	<10	NA	NA	NA	NA	NA	NK	NA	RA	NA	MA	MA	NA	NA
B5-10'	10	Hoist	<10	<10	410	NA	NA	NA	NA	M	YN	NA	RA	NA	VN	NA	NA	NA
86-10.5*	10.5	Concrete Cutout	<1.0	N 710	770	0100.0>	<0.0010	0100.0>	0100,0>	<0.0010	<0.020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	QN
B7-10'	10	GasStation	<10	<10	90	<0.0010	<0.0010	0100.0>	0100,0>	<0.0010	<0.020	<0.0010	0100.0>	<0.0010	<0.0010	<0.0010	<0.0010	QN
B8-10'	01	Gas Station	410	410	410	0100.0>	<0.0010	<0.0010	0100.0>	<0.0010	0.026	0100.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	dM
B9-10 [′]	10	GasStation	75	AK 20	012	<0.0050	<0.0050	0500.0≻	0500.0>	<0.0050	<0.10	0,089	0.017	<0.0050	<0.0050	0.013	EFG	QN
B10-10*	10	GasStation	AS 3,200	950	66	<0.50	<0.50	13	2.7	<050	410	140	36	ß	360	<0.50	40	MD
B11-10*	10	Gas Station	<10	<10	<10	<0.0010	<0.0010	0100'0>	0100.0>	<0.0010	<0.020	0.0012	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	QN
B12-10*	10	GasStation	AS 17,000	AK 1,800	<400	€.0	<2.0	150	2.0	0.2>	<40	160	65	<2.0	<2.0	<2.0	65	QN
	ESL (LEACHING TO	ESL (LEACHING TO GROUNDWATER)	770	570	••000'ES	0.044	2.9	1.4	2.3	0.023	0.50	1	i	:			\$E0.0	Various
ESL (COMMER.	ESL (COMMERCIAL/INDUSTRIAL, SHALLOW, \$13 FEET BSS)	HALLOW, STO FEET BSG)	3,900	1,100	140,000	1.0	46,000	22	2,400	180	000'0E9		1			1	14	Various
ESLIR	ESL (RES DENTIAL, SHALLOW, \$10 FEET BSG)	W, STOFEET BSG)	740	230	11,003	0.23	970	5.1	560	42	000'65		-	;	-	-	3.3	Various
ESL (ANY L	ESL (ANY LAND USE/ANY DEPTH: CONSTRUCTION WORKER EXPOSURE)	PTH: CONSTRUCTION WORKER EXPOSURE)	7,400	3,800	32,003	24	28,000	480	65,000	3,700	320,000					:	350	Various
					At - Isotopical and a second second second	tehon that direct												

bg = below surface grade by = below surface grade TPH = total perforientiny forcentions as gasaline TPH = total performing the performing transmission in the state of the

	SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - SVOCs and PCBs	1200 PARK STREET, ALAMEDA, CALIFORNIA
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	Sample		Acenaphthene	Naphthalene	Phenanthrene	Pyrene	Benzo(a)pyrene	Other SVOCs	PCBs
Sample ID	Depth	Area of Concern			EPA Method 8270C	od 8270C			EPA Method 8082
	(feet bsg)			5	ample Date: April 1	7, 2016; results i	Sample Date: April 17, 2016; results in milligrams per kilogram	gram	
B1-10'	10	Hoist	<0.020	<0.020	<0.020	<0.020	<0.020	ND	DN
B2-11.5'	11.5	Hoist	<0.020	<0.020	<0.020	<0.020	<0.020	ND	DN
B3-11'	11	Hoist	<0.020	<0.020	<0.020	<0.020	<0.020	DN	ND
B4-10'	10	Waste Oil Tank	<0.020	<0.020	<0.020	<0.020	<0.020	ND	NA
B5-10'	10	Hoist	<0.020	<0.020	<0.020	<0.020	<0.020	DN	ND
B6-10.5	10.5	Concrete Cutout	<0.020	<0.020	<0.020	0.030	<0.020	DN	NA
B7-10'	10	Gas Station	NA	NA	NA	NA	NA	AA	NA
B8-10'	10	Gas Station	NA	NA	NA	NA	NA	AN	NA
B9-10'	10	Gas Station	NA	NA	NA	NA	NA	NA	NA
R10-10	10	Gas Station	0.060	1.9	0.15	0.084	<0.030	QN	NA
R11-10'	10	Gas Station	AN	NA	NA	NA	NA	NA	NA
B12-10'	10	Gas Station	<0.030	4.5	<0.030	<0.030	<0.030	ND	NA
	ESL (LEACHIN	ESL (LEACHING TO GROUNDWATER)	16	0.033	11	85	130	Various	Various
ESL (CO	MMERCIAL/I	ESL (COMMERCIAL/INDUSTRIAL, SHALLOW, ≤10 FEET BSG)	45,000	14	A CONTRACTOR	23,000	0.29	Various	Various
ESL (RES	IDENTIAL, SH	ESL (RESIDENTIAL, SHALLOW, \$10 FEET BSG)	3,600	3.3		1,800	0.016	Various	Various
0	ESL (ANY DNSTRUCTIO	ESL (ANY LAND USE/ANY DEPTH: CONSTRUCTION WORKER EXPOSURE)	10,000	350		5,000	1.6	Various	Various
Notes:									
bsg = belc	bsg = below surface grade	ade							
SVOCs = S	emi-volatile (SVOCs = semi-volatile organic compounds							
NA = not analyzed	PCBS = polycillolifiaced bipficityis NA = nct analvzed								
ND = thes	e analyses in	ND = these analyses include a variety of individual compounds. The "ND" designation indicates that	dual compounds. T	'he "ND" designatio	in indicates that				
vipui	idual compor	individual compounds included in the analyses were not detected above laboratory reporting limits	alyses were not det	ected above labora	tory reporting limits		2		
bold = de	ected concel	bold = detected concentration is above laboratory reporting	atory reporting limits	S					
Shading =	deterted cor	Shading = detected concentration is above one or more FSIS	P OT MORP FSIS						

TABLE 3

Shading = detected concentration is above one or more ESLs ESLs = Environmental Screening Levels, SF Bay Region of the California Water Quality Control Board, February 2016

TABLE 4	SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS - METALS	1200 PARK STREET, ALAMEDA, CALIFORNIA
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		Antimony	Arsenic	Barium	Beryllum	Cadmium Chromium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Sample ID	Area of Concern									EPA Method 200.8	00.8	Post of the						
								Sampl	e Date: April 1	17, 2016; result	Sample Date: April 17, 2016; results in micrograms per liter	ns per liter						
B-1 GV/	Hoist	<10	4.0	23	<1.0	<0.20	4.3	<1.0	<2.0	<1.0	<0.20	2.0	п	<1.0	0.1>	<1.0	1.9	<5.0
B-5 GW	Hoist	410	410	22	<1.0	<0.20	3.7	<1.0	2.6	<1.0	<0.20	2.1	4.0	<1.0	0.1>	<1.0	1.9	<5.0
B-6 GW	Concrete Cutout	410	4.0	20	<1.0	<0.20	1.2	11	<2.0	<1.0	<0.20	<1.0	6.8	<1.0	<1.0	<1.0	1.7	<5.0
B-10 GW	Gas Station	410	410	27	<1.0	<0.20	11	1.4	<2.0	<1.0	<0.20	6.6	5.2	<1.0	0.1>	<1.0	<1.0	<5.0
B-12 GW	Gas Station	1.3	2.3	1,300	<1.0	<0.20	1.5	<1.0	<2.0	<1.0	<0.20	17	4.0	<1.0	<1.0	<1.0	2.5	<5.0
	Tier 1 ESL	6.0	10	1,000	2.7	0.25	50	3.0	3.1	2.5	0.051	100	8.2	5.0	61.0	2.0	19	81
	MCL	6.0	10	1,000	4.0	5.0	50		1300	15	2		100	50	100 *	2.0		5,000 *
Notes:																		
bold = detected concentration is above laboratory reporting limits	n is above laboratory rep	porting limits																

ESI = Environmental Screening Lavei; Sen Francisco Region, Regional Water Quality Control Board, February 2016 MGL = Maximum Contaminant Level, California Department of Public Health, September 2013 * = Secondary MGL (taste & order or welfare basec) --- = screening level not established

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TABLE 5 SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESUITS - TPH AND YOCS 1200 PARK STREET, ALAMEDA, CALIFORNIA

Ample Ample France Example force France Example force Example			TPHE	TPHd	ТРИго	Bentene	Tcluere	Ethylbenzene	o-Xylene	MTBE	Tetrachioroethene Naphthalene		Isopropylbenzene	n-Propylbenzene	1,3,5. Trimethylbenzene	tert-Butylbenzene	1,2,4- Trimethylbenzene	p-isopropy tolucne	Other VOCs
Andress Andres Andres Andres A	Sample ID	Area of Concern		EPA Method 8015B					1.1.1.1			EPAN	fethod \$260B		a loader		14 - 24T		
Index etc etc </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>Sample Date:</th> <th>April 17, 2016; results</th> <th>tin micrograms per</th> <th>liter</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>										Sample Date:	April 17, 2016; results	tin micrograms per	liter						
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	B-1 GW	Hols:	<50	\$0	<100	<050	<0.50	<0.50	<0.50	41.0	3.9	<050>	<1.0	<1.0	05.0	<70	<1.0	\$1.0	QN
Image: concrete durate concrete concrete	B-5 GW	Holst	<50	\$4	<110	<050	<0.50	<0.50	<0.50	410	Ø.50	<0.50	41.0	<1.0	<0.50	.0</td <td><1.0</td> <td>410</td> <td>Q</td>	<1.0	410	Q
Image: state Image: state<	B-6 GW	Concrete Cutout	<s0< td=""><td>N 84,000</td><td>69,000</td><td><0.5</td><td><0.50</td><td><0.50</td><td><0.50</td><td>4.0</td><td>0.50</td><td><050></td><td>0.15</td><td><1.0</td><td><0.50</td><td><1.0</td><td><1.0</td><td>410</td><td>QN</td></s0<>	N 84,000	69,000	<0.5	<0.50	<0.50	<0.50	4.0	0.50	<050>	0.15	<1.0	<0.50	<1.0	<1.0	410	QN
0 0645124 12000 15600 56 20 68 13 610 641 642 642 65 65 16 16 16 16 10 100 15,000 15,000 56 13 610 641 16 <t< th=""><td>B-10 GW</td><td>Gas Station</td><td>21,000</td><td>24,000</td><td>A3 1,500</td><td>425</td><td>9.5</td><td>240</td><td>2.5</td><td><5.0</td><td>25</td><td>730</td><td>210</td><td>L,40)</td><td>570</td><td>66</td><td>3,100</td><td>310</td><td>QN</td></t<>	B-10 GW	Gas Station	21,000	24,000	A3 1,500	425	9.5	240	2.5	<5.0	25	730	210	L,40)	570	66	3,100	310	QN
···· ···· 10 40 30 20* 50 50 0.1 ···	B-12 GW	Gas Station	3,600	11,000	15,000	S6	2.0	83	13	4.0	18.0	18	39	76	4.2	45	16	6.6	QN
100 100 30 30 310 0.17		MCL		1		10	40	30	20*	5.0	5.0	21.0						1	Various
		Tier 1 ESU		100	54,000	10	40	13	20*	5.0	3.0	210							Various

 Mater.
 XIII-Instruction
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 Phile - enable performing variable
 XI = heavier hydrocarbox than dised
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 XOII = weaking exploritor performation indicates that individual compounds included in he analyses were not detected shore laboratory vaparting limits

 Socialing - detected concerning in showr the Pacific Materian Mater

TABLE 6	SUMMARY OF GROUNDWATER SAMPLE ANALYTICAL RESULTS - SVOCs	1200 PARK STREET, ALAMEDA, CALIFORNIA
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		Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Fluoranthene	Huorene	Phenanthrene	Pyrene	Indeno(1,2,3-cd)pyrene	Benzo(g,h,i)penylene	Other SVOCs
Sample ID	Area of Concern		The second second second second second second second second second second second second second second second s		The second second second second second second second second second second second second second second second se		EPA Method 8270C SIM					
			The second second second second second second second second second second second second second second second s	THE REAL PROPERTY AND		Sample Date: A	Sample Date: April 17, 2016; results in micrograms per liter	rograms per litter	· · · · · · · · · · · · · · · · · · ·			
B-1 GW	Hoist	<0.050	<0.050	<0.050	<0:050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	ND
B-5 GW	Hoist	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	QN
B-6 GW	Concrete Cutout	0.086	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	QN
B-10 GW	Gas Station	480	3.0	<0.050	0.40	0.41	26	4.6	1.5	<0.050	0.096	QN
B-12 GW	Gas Station	67	<0.50	0.46	0.29	0.33	<0.050	1.5	1.5	0.10	0.29	DN
	MCL	110	530	Colored to the	18,000	800	290	100 ···· 1000	. 120	0.034	No	Various
Strend a	Tier 1 ESL	210	20	30	0.73	8.0	3.9	4.5	2.0	0.034	0.10	Various
Notes:	<u>Notes:</u> SUOCE - rend unitility seconds commented								-			

ND = there analyses include a variety of individual compounds. The "ND" designations indicates that individual compounds included to the analyses were not detected above laboratory reporting limits of a detected concentration is at on above "Iner I.E. and/or MCL Shadng - detected concentration is at on above "Iner I.E. and/or MCL Shadng - detected concentration is at on above "Iner I.E. and/or MCL Shadng - detected concentration is at on above "Iner I.E. and/or MCL MCL = Montemum Storening Level. Ser Franctics Anglor, Regional Water Quality Control Board, February 2016 MCL = Montemum Contraminiant Level, California Department of Public Health, September 2013 --- - acreening level not testablished

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