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FOURTH QUARTER 2016
GROUNDWATER MONITORING REPORT

Former PACO Pumps Site
9201 San Leandro Street, Oakland, California

04-PFT-005

Prepared For:

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May 10, 2017

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June 23, 2017

Mr. Mark E. Detterman, PG, CEG
Environmental Protection
Alameda County Health Care Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: Fuel Leak Case No. R0000320, Former Paco Pumps, Inc., 9201 San Leandro Street, Oakland, CA

Dear Mr. Detterman:

Please find enclosed the *Fourth Quarter 2016 Groundwater Monitoring Report* (Report) for the Former Paco Pumps facility located at 9201 San Leandro in Oakland, California (the Site).

Results from this groundwater monitoring event indicate that groundwater affected by petroleum hydrocarbons and related compounds remain on Site at concentrations that pose a very low risk to human health and the environment.

If you have any questions during your review of the Report, please feel free to contact Jacob Wilcox, jacob.wilcox@apexcos.com or 925-951-6387.

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

Sincerely,

Peter Serruier
Precision Castparts Corp.

Cc: Mr. Dave Murray, Precision Castparts Corp.
Mr. Paul Parmentier, The Source Group, Inc., a division of Apex Companies LLC

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1.0 INTRODUCTION

The Source Group, Inc. (SGI), a division of Apex Companies, LLC (SGI-Apex) on behalf of PCC Flow Technologies Holdings, Inc. (PCC), is submitting this *Fourth Quarter 2016 Groundwater Monitoring Report* (Report) for the former PACO Pumps facility located at 9201 San Leandro Street, Oakland, California (Site) (Figures 1 and 2).

1.1 Regulatory Background

In 2013, SGI submitted the *Remedial Investigation Activities and Groundwater Monitoring Report* (SGI, 2013) to Alameda County Environmental Health (ACEH) and requested case closure for the Site under the California Regional Water Quality Control Board's (CRWQCB) Low-Threat Underground Storage Tank Case Closure Policy (LTCP; CRWQCB, 2012). ACEH rejected the closure request in a letter dated March 7, 2014 (ACEH, 2014a), which included a summary of the ACEH evaluation for Site closure under the LTCP. Following a meeting and Site inspection attended by ACEH staff in April 2014, SGI prepared a Work Plan (SGI, 2014) for further Site investigation that included periodic groundwater monitoring of the existing well network. ACEH approved the Interim Remedial Action Plan (IRAP) in an August 26, 2014 *Conditional Work Plan Approval* (Conditional Approval; ACEH, 2014b).

This report documents the most recent groundwater monitoring event, performed in November 2016.

2.0 SITE BACKGROUND

2.1 Site Location and History

The former PACO Pumps facility is located at 9201 San Leandro Street in Oakland, California (the Site, Figures 1 and 2). The Site is an approximately 4.6-acre parcel that is generally bounded by: an access road and heavy industrial/manufacturing business to the north; San Leandro Street, Union Pacific Railroad tracks, and elevated Bay Area Rapid Transit (BART) tracks to the east; Union Pacific Railroad tracks and easements for petroleum pipelines to the west; and industrial/warehousing businesses to the south. The surrounding area is primarily a mix of industrial and manufacturing businesses, although some residences are located approximately 450 feet south/southwest of the Site. Currently, the entire Site is covered with either asphalt, concrete, or buildings constructed on concrete slabs. Two large warehouse buildings occupy the western and eastern areas of the Site. The nearest surface water body is San Leandro Creek, which is located approximately 5,000 feet southwest of the Site. No drinking water wells have been identified within ¼-mile of the Site (SGI, 2012).

The Site was historically used as a manufacturing facility since 1945 for industrial pumps, tents, and as a foundry (Jonas & Associates, Inc. [Jonas], 1991) and has been used for warehousing and medicinal plant growing. Currently, the Site is owned by 9201 San Leandro, LLC and used for transportation, storage, and warehousing company.

2.2 Previous Site Activities

Subsurface soil and groundwater conditions have been investigated since the 1980s by various consultants including Jonas, ERAS Environmental Inc. (ERAS), Levine Fricke Recon Inc. (LFR), and most recently SGI.

Throughout the investigation process, the site has been divided into five Areas of Interest (AOIs) (Figure 2) based on past use and historic investigation results:

Area of Interest	Location
1	South-southeast border of Site.
2	Southwestern border of site between Warehouse Building 3 and fence line, extending southeast to property line.
3	Western-most corner of site between Warehouse Building 3 and fence line.

Area of Interest	Location
4	Central area of Site, encompassing the former UST location near Building 3, part of Building 3 footprint, as well as parts of former Buildings 2 and 4.
5	East-northeastern area of site, immediately adjacent to and northeast of AOI 4, including footprint of former warehouse Building 1 and parts of former Buildings 2 and 4.

In addition, each of the Site buildings has been assigned a number from one through four, as shown on Figure 2. Buildings 2 and 4 have been demolished, leaving Buildings 1 and 3, and the small workshop on the southeast corner of the Site.

Previous activities include excavation of soil associated with a former 550-gallon gasoline underground storage tank (UST) located on the southeast side of Building 3 (ERAS, 2008) to remove major sources of subsurface contamination; however, impacted soil remains near the foundation of the former building to the west of the former UST location. Several investigations were completed in the area, including drilling of soil borings inside the building located west of the former UST.

Investigation work by LFR (LFR, 2009) indicated that deeper groundwater did not contain detectable concentrations of petroleum contaminants and this finding has been confirmed during subsequent groundwater monitoring events.

SGI conducted a 24-hour pilot test to evaluate the effectiveness of high vacuum dual-phase extraction (HVDPE) at the Site in April 2010, successfully removing 2,000 gallons of groundwater with hydrocarbons. Further, SGI conducted a 10-day dual-phase extraction episode resulting in the removal of significant hydrocarbon mass and collection of reliable site contaminant distribution data. SGI has since installed three groundwater monitoring wells (Area 4) and eight soil vapor probes (Areas 4 and 5). Subsequent groundwater sampling indicated that groundwater leaving the Site to the west was not impacted with benzene and contained very low concentrations of methyl tert butyl ether (MTBE), total petroleum hydrocarbons as diesel (TPHd), and total petroleum hydrocarbons as motor oil (TPHmo). Soil vapor sampling showed total petroleum hydrocarbons as gasoline (TPHg) and benzene as the most common compounds detected. Results of these investigations are presented in the *Remedial Investigation Activities and Groundwater Monitoring Report* (SGI, 2013) and the *Data Gaps Investigation and Groundwater Monitoring Report* (SGI, 2015).

Primary findings of previous groundwater investigation activities indicate petroleum hydrocarbons are present in elevated concentrations in the vicinity of a former UST, near the existing southwestern warehouse building in Area 4 (Figure 2).

Currently, semi-annual groundwater monitoring and sampling addresses groundwater conditions site-wide.

3.0 GROUNDWATER MONITORING AND SAMPLING ACTIVITIES

3.1 Groundwater Monitoring and Sampling Procedures

Blaine Tech Services, Inc. of San Jose, California was contracted to conduct the Quarter 4, 2016 groundwater monitoring and sampling event. Sampling activities were conducted on November 2, 2016. This section details the monitoring and sampling activities completed.

Of the 28 wells planned for monitoring, 14 were not sampled as follows:

- MW-2, MW-4, E-1, E-3, E-4, AS-1S, ASMW-2S, ASMW-2D – covered by pallets of freight and inaccessible;
- MW-3 and E-8 – damaged casing/possibly filled with dirt; and
- MW-8, E-10, E-11, and E-12 – not located due to changed Site surface conditions.

3.1.1 Groundwater Monitoring

Groundwater levels were measured in 14 monitoring wells. Water levels in all wells were gauged from the top of the well casing (TOC) using an electronic water level indicator graduated to 0.01 foot. The surveyed tops of casing elevations are referenced to mean sea level (msl). Quarter 4, 2016 and historical groundwater elevations are presented in Table 1 and represented as a potentiometric surface on Figure 3.

3.1.2 Groundwater Sampling

Groundwater samples were collected from 14 monitoring wells. Prior to collection, groundwater wells were purged of three well casing volumes using a submersible pump and/or disposable bailer. Groundwater samples were collected with disposable bailers. Water quality parameters were measured and recorded during the groundwater purging to ensure the samples were representative of aquifer conditions. Samples were transferred directly into laboratory-supplied containers and placed on ice for transport to Accutest, Inc. of San Jose, California under chain-of-custody control. The monitoring well field sampling forms are included in Appendix A.

Groundwater samples collected from each well during the sampling event were analyzed for:

- TPHd (C10-C28) by United States Environmental Protection Agency (USEPA) Method 8015M, with and without silica gel cleanup (SGC);
- TPHmo (C28-C40) by USEPA Method 8015M, with and without SGC; and
- TPHg (C6-C10) and volatile organic compounds (VOCs) by USEPA Method 8260B.

Results of the groundwater monitoring and sampling event are presented in Section 3.2.2.

3.1.3 Waste Management

Well purge water was collected on Site in properly labeled 55-gallon steel drums. Five (5) drums of purge water from this monitoring event remain onsite pending profiling and disposal.

3.2 Groundwater Monitoring and Sampling Results

The Quarter 4, 2016 semi-annual groundwater monitoring and sampling event was conducted November 2, 2016. Groundwater was gauged and sampled in all 14 accessible wells.

3.2.1 Groundwater Elevations

The depth-to-water measurements ranged from 5.73 feet below top of casing (btoc) in MW-10 to 7.42 feet btoc in E-7. Groundwater elevations ranged from 11.62 feet above msl in MW-1 to 12.58 feet msl in MW-11.

A potentiometric surface map was constructed from the shallow groundwater elevation data and is presented as Figure 3. The potentiometric surface map does not include water levels within the buildings, due to lack of recharge in the area. Quarter 4, 2016 and historical groundwater elevation data are included in Table 1.

A review of elevation data and the potentiometric surface map indicates shallow zone groundwater flows in a west-southwesterly direction at a gradient of approximately 0.011 feet/foot in Areas 4 and 5. The flow direction and gradient are consistent with historical groundwater flow patterns.

3.2.2 Groundwater Analytical Results

On November 2, 2016, a total of 14 wells were sampled for TPHd and TPHmo, both without SGC, and VOCs (including TPHg, BTEX, and fuel additives) as part of the Quarter 4, 2016 groundwater monitoring event. Thirteen wells were analyzed for TPHd and TPHmo with SGC; E-2 was not sampled for TPHd and TPHmo with SGC.

Quarter 4, 2016 laboratory analytical results and historical laboratory analytical results are summarized in Tables 2 and 3, respectively, and presented on Figure 4. The laboratory report is attached under Appendix B; analytical results are summarized below:

- TPHg was detected in four monitoring wells (MW-6, E-6, E-7 and E-9) ranging from 147 micrograms per liter (µg/L) in E-6 to 13,300 µg/L in E-9. TPHg concentrations in these wells were generally within historic ranges. TPHg concentration trends have been fairly stable in all wells, with the highest concentrations observed in wells downgradient of the former UST adjacent to Building 3.
- TPHd with SGC was detected in all 13 wells sampled with concentrations ranging from 163 µg/L in MW-9 to 15,200 µg/L in E-9. These concentrations are generally within historic ranges. The highest TPHd concentrations were detected in wells E-7 and E-9, downgradient of the former UST adjacent to Building 3.

- TPHd without SGC was detected in all 14 wells sampled with concentrations ranging from 126 µg/L in MW-7 to 40,700 µg/L in E-9. Duplicate samples are also not consistent with laboratory QA/QC objectives.
- TPHmo with SGC was detected in all 13 wells sampled with concentrations ranging from an 51.6 µg/L in MW-6 to 4,090 µg/L in E-7. These concentrations are generally within historic ranges. The highest TPHmo concentrations were detected in wells AS-1D, E-5, and E-7, downgradient of the former UST adjacent to Building 3.
- TPHmo without SGC concentrations in the 14 wells analyzed ranged from 86.1 µg/L in MW-7 to 2,220 µg/L in E-5. Duplicate samples are not consistent with laboratory QA/QC objectives.
- Benzene was detected in three wells, all located near to or downgradient from the former UST in Area 4: MW-6, E-7, and E-9. Concentrations were largely consistent with historic data, ranging from 132 µg/L in E-7 to 1,880 µg/L in MW-6. Benzene concentration trends are generally stable or decreasing.
- MTBE was detected in three samples (MW-9, E-6 and E-7) at concentrations of ranging from 0.20 µg/L in E-6 (which is above the method detection limit but below the laboratory reporting limit) and 0.86 µg/L in E-7 respectively. These concentrations are consistent with historic ranges.
- Fuel constituents/additives including toluene, ethylbenzene, xylenes, and 1,2-dichloroethane (1,2-DCA) were also detected in groundwater samples.
- Laboratory analytical results from the sample collected from the deep monitoring well in the former UST area (AS-1D) contained concentrations of TPHg, TPHd (with and without SGC), and TPHmo (with and without SGC), all at levels above the laboratory reporting limit.

Results of the Quarter 4, 2016 groundwater sampling indicate the downgradient boundary wells (MW-1, MW-5, MW-9, MW-10, MW-11, and MW-12) contain low and stable / decreasing concentrations of TPHd and TPHmo. The absence TPHg and BTEX above the laboratory reporting limit, and the very low concentrations of MTBE (MW-9, E-6 and E-7) in groundwater samples collected from the downgradient boundary wells indicate the volatile organic plume is stable and contained on Site.

4.0 DATA EVALUATION AND RECOMMENDATIONS

A discussion of SGI-Apex's conclusions and recommendations based on the groundwater monitoring results is presented below.

4.1 Data Evaluation

Groundwater monitoring and sampling was conducted on November 2, 2016. The following evaluates the current Site groundwater conditions.

- Groundwater elevation data indicates shallow zone groundwater flows in a west-to-southwesterly direction at a gradient of approximately 0.011 feet/foot, which is consistent with historical groundwater flow patterns.
- Benzene concentration trends are generally stable, decreasing, and/or within historic ranges. Benzene concentrations in groundwater are co-located with TPHg in the area adjacent to, and downgradient of, the former UST adjacent to Building 3.
- TPHg concentration trends are stable in all wells, with the highest concentrations in wells downgradient of the former gasoline UST adjacent to Building 3. In boundary wells MW-1, MW-5, MW-9, MW-10, and MW-11, TPHg was not detected above the laboratory reporting limit, consistent with previous monitoring results. These data indicate that TPHg in groundwater is delineated within the Site and the TPHg plume is stable.
- TPHd concentration trends appear stable or decreasing. The highest concentrations were detected in wells E-7 and E-9, downgradient of the former gasoline UST adjacent to Building 3. TPHd was detected at low concentrations in boundary wells MW-1, MW-9, MW-10, and MW-12. MW-5 and MW-11 had slightly increased concentrations, but are still consistent with historical concentrations observed at the Site. Concentrations in the boundary wells are consistent with historical concentrations, indicating a relatively stable TPHd plume.
- TPHmo concentration trends are generally stable, decreasing, and/or within historic ranges. The highest concentrations were detected in wells E-7 with SGC (4,090 µg/L), E-5 without SGC (6,220 µg/L), and AS-1D with SGC (1,440 µg/L). Wells E-3 and E-5 are west (downgradient) of the former UST adjacent to Building 3. The concentration of E-6 (208 µg/L), downgradient of the UST area, decreases 15 feet to the west. Concentrations at boundary sentinel monitoring wells MW-9 (74.9 µg/L) and MW-10 (250 µg/L) located another 65 to 75 feet downgradient, respectively.
- MTBE concentrations were detected in three wells above the method detection limit. Where detected, MTBE concentration trends have been stable or decreasing.

4.2 Recommendations

SGI-Apex recommends continued monitoring groundwater semi-annually for two more events: Quarter 1, 2017 and Quarter 3,2017. After the final groundwater monitoring event, SGI-Apex will review the collected data and make recommendations regarding the need for further assessment/remediation actions.

SGI-Apex will change laboratories prior to the next groundwater sampling event due to data quality issues and unresolved questions about laboratory quality assurance/quality control.

During the next monitoring event, in addition to normal analysis for extractable hydrocarbons (TPHd and TPHmo), silica gel cleanup will be performed on all sampled well samples to establish whether a significant difference exists between results generated using the two analytical methods and to further evaluate why those differences exist. A Deed Restriction will be prepared by PCC and the current property owner that will address ACEH's concerns raised in its March 7, 2014 comment letter. The Deed Restriction will be completed with ACEH's oversight and is expected to include limitations on building and site usage and will contain specific soil management requirements.

5.0 REFERENCES

Alameda County Environmental Health (ACEH). 2014a. Request for a Focused SCM and Data Gap Investigation Work Plan. 9201 San Leandro Street, Oakland, California. March 7.

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ERAS Environmental Inc. (ERAS). 2008. Subsurface Investigation and Groundwater Monitoring Report, Quarter 2, 2008, Former PACO Pumps Facility, 9201 San Leandro Street, Oakland, California. July 31.

Jonas and Associates Inc. (Jonas). 1991. Soil Characterization Report, Soil Excavation Area. October 30.

Levine Fricke Recon Inc. (LFR). 2009. Investigation and Remediation Activities Report. May 15.

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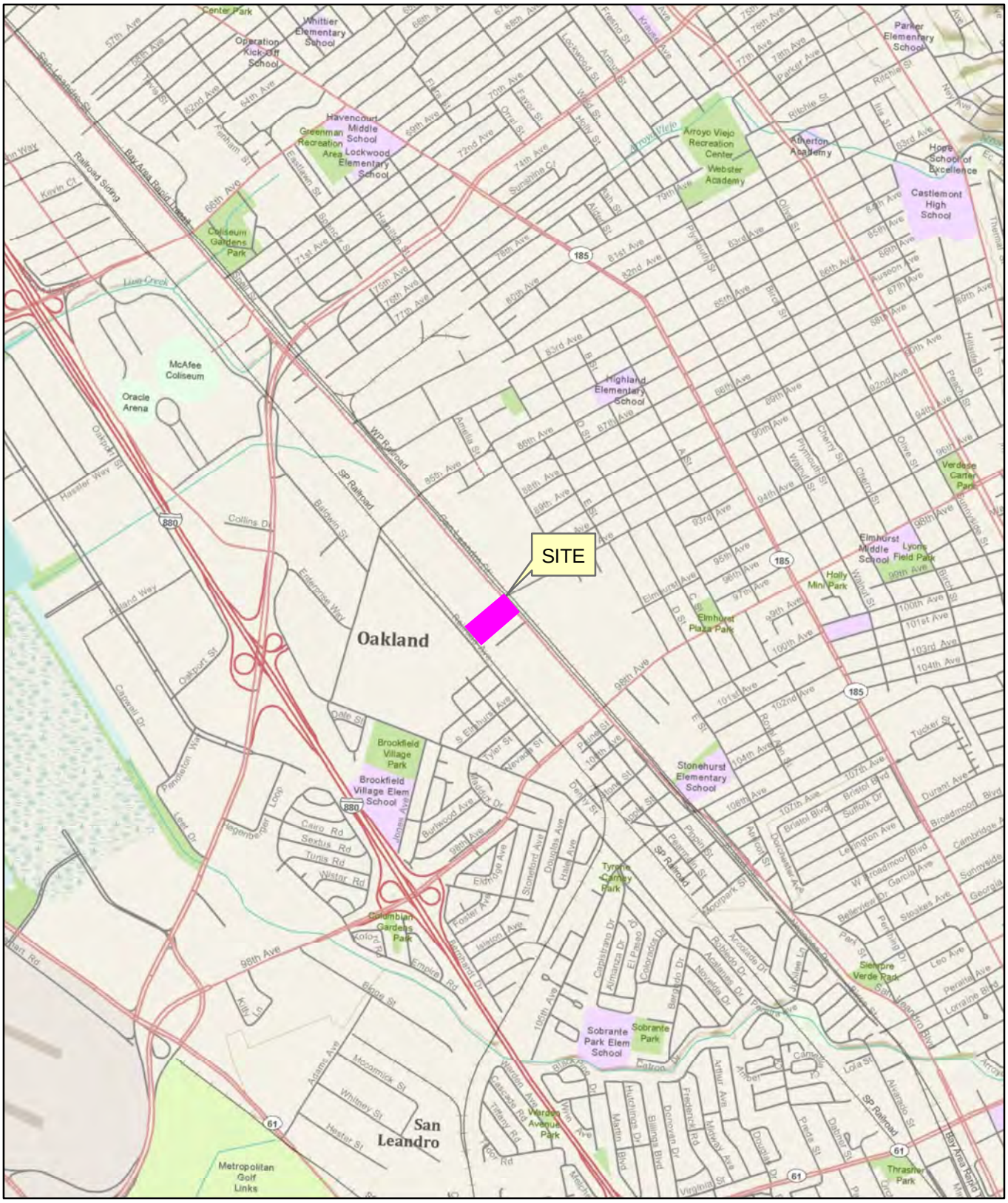
SGI. 2013. Remedial Investigation Activities and Groundwater Monitoring Report. Former PACO Pumps Site, 9201 San Leandro Street, Oakland, California. July 25.

SGI. 2014. Data Gaps Work Plan. Former PACO Pumps Site, 9201 San Leandro Street, Oakland, California. June 18.

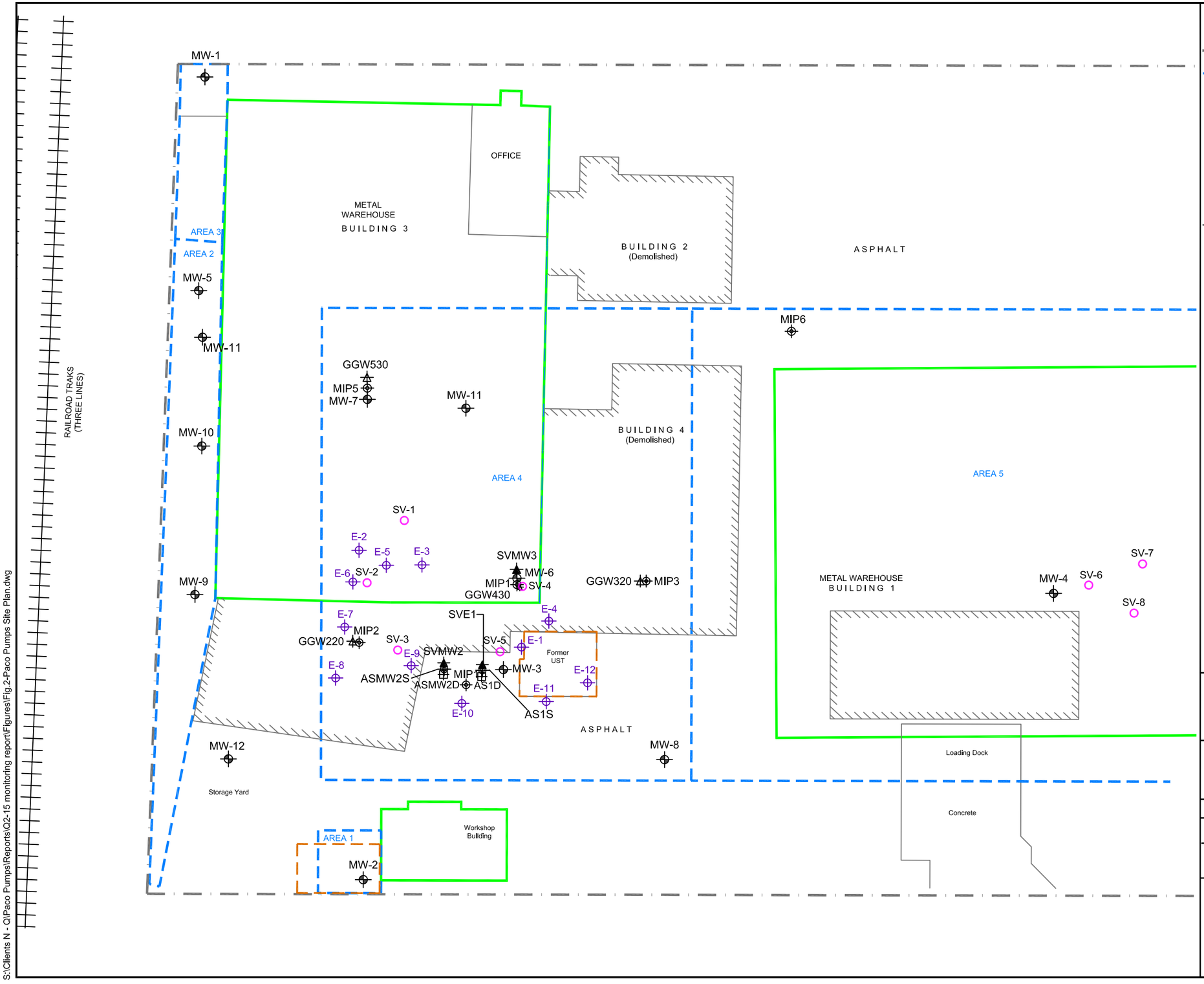
SGI. 2015. Data Gaps Investigation and Groundwater Monitoring Report. Former PACO Pumps Site, 9201 San Leandro Street, Oakland, California. January 6.

FIGURES



SOURCE: 7.5 MINUTE USGS TOPOGRAPHIC MAP FROM ARCGIS MAP SERVICE

SGI environmental THE SOURCE GROUP, INC. 1962 FREEMAN AVE. SIGNAL HILL, CA 90755	PROJECT NO.: 04-PFT-001	DATE: 10/14/2009	DR.BY: AC	APP.BY: SS	SCALE 1:24,000 0 875 1,750 3,500 Feet N
	FORMER PACO PUMPS FACILITY 9201 SAN LEANDRO STREET OAKLAND, CALIFORNIA				**SITE LOCATION MAP** FIGURE **1**



LEGEND

- Site Boundary
- Project Areas of Concern
- Area of Excavation
- Building Outline
- Former Buildings
- Railroad Tracks
- AS1D — Deep Groundwater Air Injection or Air Injection Monitoring Well by LFR January 2009
- AS1S — Shallow Groundwater Air Injection or Air Injection Monitoring Well LFR January 2009
- MW-1 — Groundwater Monitoring Well
- SV-6 — Soil Vapor Probe by SGI 2013
- E-1 — Groundwater Monitoring Well by SGI 2010
- SVMW3 — Vadose Well by LFR January 2009
- MIP1 — Membrane Interface Probe by LFR January 2009
- GGW220 — Grab Groundwater Sample Location by LFR January 2009

SITE PLAN

FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-005	11/03/2014	SGI/AC	PP

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

SGI environmental
THE SOURCE GROUP, INC.
3478 BUSKIRK AVENUE, SUITE 100
PLEASANT HILL, CA 94523

FIGURE 2

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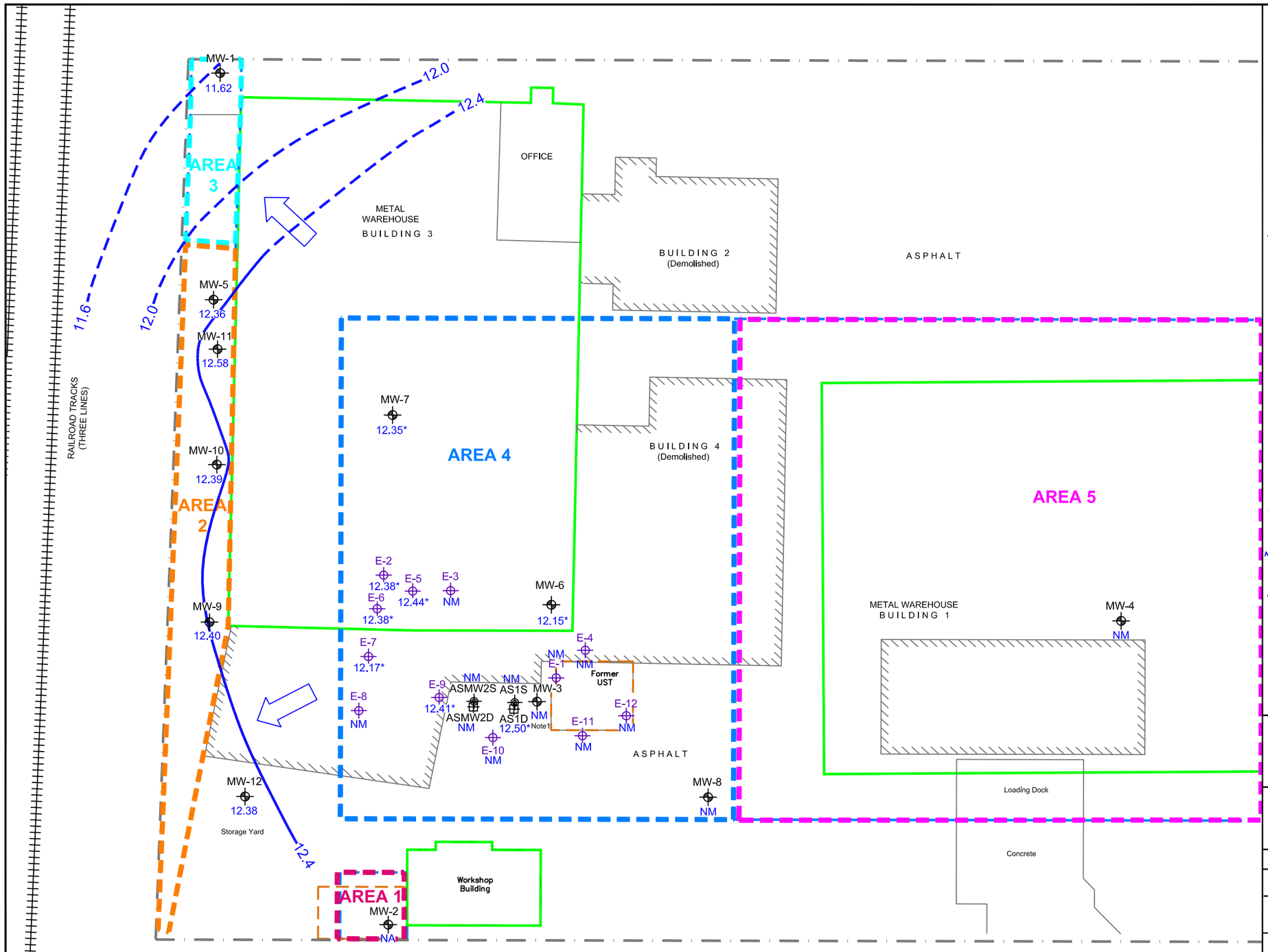

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- AS1S — Shallow Groundwater Air Injection or Air Injection Monitoring Well LFR January 2009
- MW-1 — Groundwater Monitoring Well
- E-1 — Groundwater Monitoring Well by SGI 2010
- 12.99 — Groundwater Elevation (Feet Above Mean Sea Level)
- * — Data Not Used For Contouring
- NM — Not Measured
- Groundwater Flow Direction
- 12.0 — Groundwater Contour (Feet Above Mean Sea Level)
- 12.0 — Inferred Groundwater Contour (Feet Above Mean Sea Level)
- Note1 — Not contoured; well screened in deeper groundwater zone

GROUNDWATER ELEVATION AND POTENTIOMETRIC SURFACE MAP- QUARTER 4, 2016

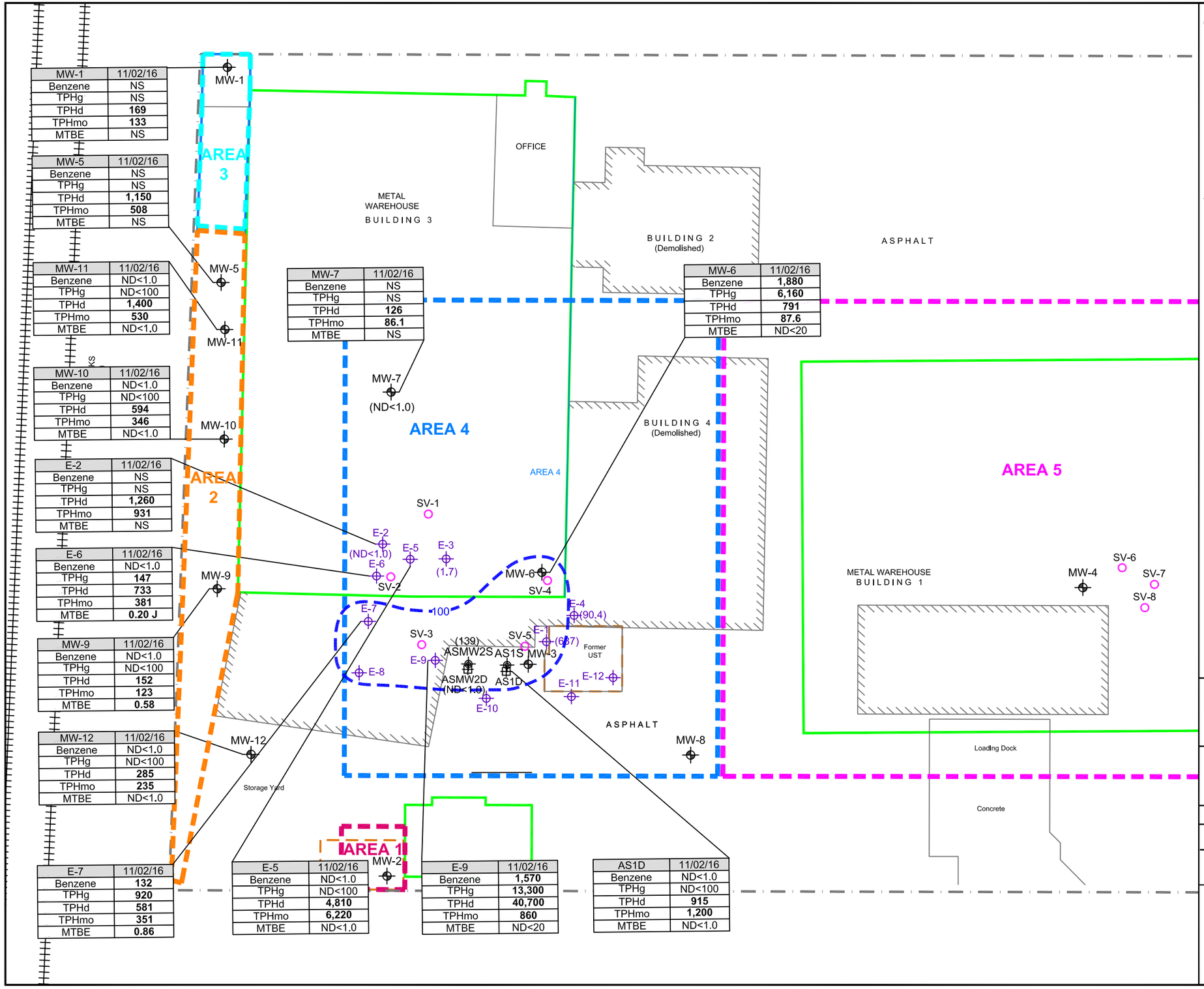
FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-005	05/03/2017	ZA	ST

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

SGI environmental | APEX
3478 BUSKIRK AVENUE, SUITE 100
PLEASANT HILL, CA 94523

FIGURE 3



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- AS1S — Shallow Groundwater Air Injection or Air Injection Monitoring Well LFR January 2009
- MW-1 — Groundwater Monitoring Well
- E-1 — Groundwater Monitoring Well by SGI 2010
- SV-6 — Soil Vapor Probe by SGI 2013
- TPHg — Total Petroleum Hydrocarbons - Gasoline Range Organics (C6-C10)
- TPHd — Total Petroleum Hydrocarbons As Diesel (C10-C28)
- TPHmo — Total Petroleum Hydrocarbons As Motor Oil
- MTBE — Methyl Tert-Butyl Ether (MTBE)
- ND<1.0 — Not Detected At A Concentration Greater Than The Reporting Limit
- NS — Not Sampled
- J — Estimated Value Above Method Detection Limit but Below Laboratory Reporting Limit
- 100 — Benzene Isoconcentration Contour in ug/L
- (90.4) — Benzene concentration From Quarter 1, 2016 Monitoring Event

All concentrations in micrograms per liter (µg/L)

MTBE, BENZENE, TPHg, TPHd, AND TPHmo CONCENTRATIONS IN GROUNDWATER - QUARTER 4, 2016

FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-005	05/03/2017	ZA	ST

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

SGI environmental | APEX
3478 BUSKIRK AVENUE, SUITE 100
PLEASANT HILL, CA 94523

FIGURE 4

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TABLES

Table 1
Current Groundwater Elevations
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Well Identification	Date Measured	Top-of-Casing Elevation [1]	Depth to Groundwater [2]	Groundwater Elevation [1]	Depth to Well Bottom
MW-1	11/2/16	17.76	6.14	11.62	19.99
MW-2	11/2/16	19.12	Unable to access		
MW-3	11/2/16	19.42	Damaged / filled in with dirt to top of casing		
MW-4	11/2/16	19.37	Unable to access		
MW-5	11/2/16	18.21	5.85	12.36	20.08
MW-6	11/2/16	19.46	7.31	12.15	16.30
MW-7	11/2/16	19.44	7.09	12.35	27.13
MW-8	11/2/16	18.27	Unable to locate		
MW-9	11/2/16	18.53	6.13	12.40	16.78
MW-10	11/2/16	18.12	5.73	12.39	21.24
MW-11	11/2/16	18.32	5.74	12.58	19.37
MW-12	11/2/16	19.41	7.03	12.38	19.51
AS-1S	11/2/16	19.38	Unable to access		
ASMW-2S	11/2/16	19.38	Unable to access		
AS-1D	11/2/16	19.31	6.81	12.50	32.91
ASMW-2D	11/2/16	19.52	Unable to access		
E-1	11/2/16	19.35	Unable to access		
E-2	11/2/16	19.56	7.18	12.38	18.30
E-3	11/2/16	19.52	Unable to access		
E-4	11/2/16	19.52	Unable to access		
E-5	11/2/16	19.53	7.09	12.44	18.07
E-6	11/2/16	19.46	7.08	12.38	18.11
E-7	11/2/16	19.59	7.42	12.17	18.20
E-8	11/2/16	19.59	Damaged / filled in with dirt to top of casing		
E-9	11/2/16	19.49	7.08	12.41	17.88
E-10	11/2/16	19.30	Unable to locate.		
E-11	11/2/16	19.19	Unable to locate.		
E-12	11/2/16	18.89	Unable to locate.		

Notes:
[1] Top-of-casing and groundwater elevation in North America Vertical Datum 1988; wells re-surveyed by Tronoff Assocaites Land Surveying on February 2, 2009.
[2] Depth to water measured in feet below top of casing.
N/A = Not Available.
-- = not measured.

Table 2
Summary of Analytical Results for Groundwater, November 2016
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Depth	TPHd	TPHd w /silica gel clean up	TPHmo	TPHmo w/ silica gel clean up	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ESLs			***100***	***100***	***50,000***	***50,000***	***100***	***1.0***	***40***	***13***	***20***	***5.0***
LFR Area 1 - Southwestern Corner of the Site, west of the "workshop building"												
LFR Area 2 - Area South of the Warehouse Storage Area Building Adjacent to the Southern Property Boundary												
MW-5	11/2/16	5.25-20.25	**1,150**	**1,040**	**508**	**482**	NA	NA	NA	NA	NA	NA
MW-9	11/2/16	12-17	**152**	**163**	**123**	**74.9**	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<3.0	**0.58**
MW-10	11/2/16	10-20	**594**	**461**	**346**	**250**	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0
MW-11	11/2/16	10-20	**1,400**	**1,370**	**530**	**630**	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0
LFR Area 3 -												
MW-1	11/2/16	5.25-20.25	**169**	**492**	**133**	**214**	NA	NA	NA	NA	NA	NA
LFR Area 4 - Former UST near Groundwater Monitoring Well MW-3												
MW-6	11/2/16	10-17	**791**	**1,270**	**87.6**	**51.6**	**6,160**	**1,880**	**44.0**	**76.5**	**39.6**	ND<20
MW-7	11/2/16	20-28	**126**	**307**	**86.1**	**80.3**	NA	NA	NA	NA	NA	NA
MW-12	11/2/16	10-20	**285**	**165**	**235**	**138**	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0
AS-1D	11/2/16	31-34	**915**	**1,460**	**1,200**	**1,440**	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0
E-5	11/2/16	8-18	**2,770**	**2,430**	**2,990**	**1,560**	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0

Table 2
Summary of Analytical Results for Groundwater, November 2016
Former Paco Pumps Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Depth	TPHd	TPHd w /silica gel clean up	TPHmo	TPHmo w/ silica gel clean up	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
DUP-1 (E-5)	11/2/16	--	**4,810**	**1,980**	**6,220**	**1,150**	ND<100	ND<1.0	ND<1.0	ND<1.0	ND<3.0	ND<1.0
E-6	11/2/16	8-18	**733**	**557**	**381**	**208**	**147**	ND<1.0	ND<1.0	ND<1.0	ND<3.0	**0.20 J**
E-7	11/2/16	8-18	**581**	**4,580**	**351**	**4,090**	**920**	**132**	**6.9**	**10.6**	**21.0**	**0.86**
E-9	11/2/16	8-18	**40,700**	**15,200**	**860**	**555**	**13,300**	**1,570**	**143**	**322**	**508**	**ND<20**
E-2	11/2/16	8-18	**1,260**	NA	**931**	NA	NA	NA	NA	NA	NA	NA
Trip Blank Sample												
TB-01	11/2/16	--	--	--	--	--	--	<1.0	<1.0	<1.0	<3.0	<1.0

Notes:
bgs = below ground surface
µg/L = micrograms per liter
Bold Font denotes concentration was greater than the ESL
w/o = without
NA = parameter not analyzed

(DUP) = duplicate sample
<6.0 = not detected at or above the laboratory reporting limit.

TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
SGC = silica gel cleanup
TPHg = total petroleum hydrocarbons as gasoline
1,2,3-TCP = 1,2,3-Trichloropropane
MTBE = methyl tert butyl ether
1,2-DCA = 1,2-dichloroethane
TBA = tertiary butyl alcohol

n-PrBz = n-Propylbenzene
ace = Acetone
n-Bubz = n-butylbenzene
sec-Bubz = sec-butylbenzene
PIPT = p-Isopropyltoluene
MIBK = 4-methyl-2-pentanone
NA= Naphthalene

J = Estimated value above method detection limit but below laboratory reporting limit.
ESL = San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels, Tier 1 Groundwater RWQCB. February 2016.
[1] Table GW-1, San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels, MCL Priority Screening Level. RWQCB. February 2016.
ARO 1016 and ARO 1254 were only Aroclors detected. All others were below reporting limits.

Table 3
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Screen Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LFR Area 1 - Southwestern Corner of the Site, west of the "workshop building"											
MW-2	11/16/92	5.25-20.25	<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-2	3/9/93	5.25-20.25	**430**	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-2	7/21/93	5.25-20.25	<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-2	1/29/94	5.25-20.25	<50	NA	<50	<2.0	<2.0	<2.0	<2.0	NA	NA
MW-2	5/26/94	5.25-20.25	<50	NA	<50	**2.3**	0.8	<0.5	<0.5	NA	NA
MW-2	8/24/94	5.25-20.25	<50	NA	<50	**3.1**	**1.4**	**0.5**	**0.6**	NA	NA
MW-2	11/22/94	5.25-20.25	<50	NA	<50	**3.4**	**1.8**	<0.5	**0.5**	NA	NA
MW-2	2/8/95	5.25-20.25	<50	NA	<50	**4.5**	**1.3**	<0.5	**0.5**	NA	NA
MW-2	5/31/95	5.25-20.25	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	8/8/95	5.25-20.25	<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-2	11/29/95	5.25-20.25	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	2/29/96	5.25-20.25	<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-2	5/23/96	5.25-20.25	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-2	11/4/96	5.25-20.25	<50	NA	NA	NA	NA	NA	NA	NA	ND
MW-2	11/13/03	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<2.0	NA	ND
MW-2	6/17/08	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	**1.1**	ND
MW-2	11/6/09	5.25-20.25	**360**	NA	<50	<0.5	<0.5	<0.5	<1.0	**0.63**	ND
MW-2	6/28/10	5.25-20.25	**53.4J**	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-2	12/30/10	5.25-20.25	<280	**3,240**	**29.2 J** [a]	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-2	6/8/11	5.25-20.25	NA	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-2	12/15/11	5.25-20.25	**95/<94***	**422/311***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-2	9/13/12	5.25-20.25	**301**	<190	<50	<1.0	<1.0	<1.0	<2.0	**0.20**	ND
MW-2	4/5/13	5.25-20.25	<95	**434**	**42**	<1.0	<1.0	<1.0	<2.0	**0.35**	ND
MW-2	10/1/13	5.25-20.25	**102**	**171 J**	<50	<1.0	<1.0	<1.0	**0.58**	<1.0	ND
MW-2	1/16/14	5.25-20.25	**134**	**195**	NA	NA	NA	NA	NA	NA	NA
MW-2	4/24/15	5.25-20.25	**252**	**465**	NA	NA	NA	NA	NA	NA	NA
MW-2	1/20/16	5.25-20.25	**280/141***	**225/152 J***	**32.6 J**	<1.0	<1.0	<1.0	<2.0	<1.0	ND
LFR Area 2 - Area South of the Warehouse Storage Area Building Adjacent to the Southern Property Boundary											
MW-5	8/24/94	5.25-20.25	**130**	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-5 (D)	11/22/94	5.25-20.25	<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-5	2/8/95	5.25-20.25	<50	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-5	5/31/95	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-5	8/8/95	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-5	2/29/96	5.25-20.25	NA	NA	<50	**0.6**	<0.5	<0.5	<0.5	NA	NA
MW-5	5/13/97	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-5	10/27/00	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-5	11/13/03	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<2.0	NA
MW-5	6/17/08	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND
MW-5	11/6/09	5.25-20.25	**1,300**	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	ND
MW-5	6/28/10	5.25-20.25	**289**	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-5	12/30/10	5.25-20.25	<94	**808**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-5	12/16/11	5.25-20.25	<94/<95*	**681/547***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-5	3/28/12	5.25-20.25	**196***	**212***	NA	NA	NA	NA	NA	NA	NA
MW-5	9/13/12	5.25-20.25	**376**	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-5	4/5/13	5.25-20.25	<96	**1,220**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-5	10/1/13	5.25-20.25	**235**	**289**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-5	10/16/14	5.25-20.25	**157**	**94.4**	NA	NA	NA	NA	NA	NA	NA
MW-5	4/24/15	5.25-20.25	**251**	**332**	NA	NA	NA	NA	NA	NA	NA
MW-5	1/20/16	5.25-20.25	**181***	**146 J***	**32.8 J**	<1.0	<1.0	<1.0	<2.0	<1.0	**0.27 J** (1,2,3-TCP)
MW-5	11/2/16	5.25-20.25	**1,150**	**1,040**	NA	NA	NA	NA	NA	NA	NA
MW-9	4/5/13	12-17	<110	<220	<50	<1.0	<1.0	<1.0	<2.0	**1.1**	**0.67** (1,2-DCA)
MW-9	10/1/13	12-17	**121**	**219**	<50	<1.0	<1.0	<1.0	<2.0	**1.1**	**0.70 J** (1,2-DCA)
MW-9	10/16/14	12-17	**24.5**	**58.2**	<25	<0.20	<0.20	<0.20	<0.46	**0.91 J**	
MW-9	4/24/15	12-17	**115**	**126 J**	<50	<1.0	<1.0	<1.0	<2.0	**1.1**	**0.71 J** (1,2-DCA)
MW-9	1/20/16	12-17	**55.9 J***	**70.6 J***	<50	<1.0	<1.0	<1.0	<2.0	**0.99**	**0.87 J** (1,2-DCA)
MW-9	11/2/16	12-17	**152/163***	**123**	<100	<1.0	<1.0	<1.0	<3.0	**0.58**	

Table 3
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Screen Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-10	4/5/13	10-20	<110	**690**	<50	<1.0	<1.0	<1.0	<2.0	**0.20**	**0.26** (1,2-DCA)
MW-10	10/1/13	10-20	**239**	**339**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-10	10/16/14	10-20	**80.7**	**78.9**	<25	<0.20	<0.20	<0.20	<0.46	<0.20	ND
MW-10	4/24/15	10-20	**75.9 J**	<200	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-10	1/20/16	10-20	**47.6 J***	**51.1 J***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-10	11/2/16	10-20	**594**	**346**	<100	<1.0	<1.0	<1.0	<3.0	<1.0	NA
MW-11	4/5/13	10-20	<94	**718**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-11	10/1/13	10-20	**472**	**490**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-11	10/16/14	10-20	**227**	**129**	<25	<0.20	<0.20	<0.20	<0.46	<0.20	ND
MW-11	4/24/15	10-20	**435**	**323**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-11	1/20/16	10-20	**950/244***	**626/136 J***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	**0.025 J** (ARO 1016) **.039 J** (ARO 1254)
MW-11	11/2/16	10-20	**1,400**	**530**	<100	<1.0	<1.0	<1.0	<3.0	<1.0	NA
LFR Area 3 - Western-most corner of site between Warehouse Building 3 and fence line											
MW-1	11/15/92	5.25-20.25	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	3/9/93	5.25-20.25	**140**	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	7/21/93	5.25-20.25	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	1/29/94	5.25-20.25	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-1	5/26/94	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-1	8/24/94	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-1	11/22/94	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-1	2/8/95	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-1	5/31/95	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-1	5/23/96	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-1	10/27/00	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-1	11/14/07	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	<2.0	NA
MW-1	6/17/08	5.25-20.25	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	**0.67**	NA
MW-1	11/6/09	5.25-20.25	<51	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	ND
MW-1	6/28/10	5.25-20.25	**56.8J**	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-1	12/30/10	5.25-20.25	<94	**114 J**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-1	12/16/11	5.25-20.25	<94*	**522***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-1	3/28/12	5.25-20.25	<94*	<190*	NA	NA	NA	NA	NA	NA	NA
MW-1	9/13/12	5.25-20.25	**187**	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-1	4/5/13	5.25-20.25	<97	**323**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-1	10/1/13	5.25-20.25	**71.9 J**	**97.9 J**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-1	10/16/14	5.25-20.25	**71.5**	**83.2**	NA	NA	NA	NA	NA	NA	NA
MW-1	4/24/15	5.25-20.25	**247**	**456**	NA	NA	NA	NA	NA	NA	NA
MW-1	1/20/16	5.25-20.25	**148/48.9 J***	**151 J/73.4***	**32.8 J**	<1.0	<1.0	<1.0	<2.0	<1.0	NA
MW-1	11/2/16	5.25-20.25	**169**	**133**	NA	NA	NA	NA	NA	NA	NA
LFR Area 4 - Former UST near Groundwater Monitoring Well MW-3											
B-1	2/3/97	15-20	NA	NA	**31,000**	**7,100**	**4,100**	**520**	**1,400**	NA	NA
B-2	2/3/97	15-20	NA	NA	**41,000**	**14,000**	**2,600**	**740**	**1,700**	NA	NA
B-3	2/3/97	15-20	NA	NA	**1,400**	**310**	**9.9**	**27**	**56**	NA	NA
B-4	2/3/97	15-20	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW-3	11/16/92	5.25-20.25	<50	NA	**40,000**	**2,900**	**6,100**	**550**	**1,700**	NA	NA
MW-3	3/9/93	5.25-20.25	**290**	NA	**12,000**	**1,000**	**300**	**110**	**170**	NA	NA
MW-3	7/21/93	5.25-20.25	<50	NA	**3,400**	**420**	**63**	**36**	**37**	NA	NA
MW-3	1/29/94	5.25-20.25	<50	NA	**5,600**	**910**	**220**	**47**	**36**	NA	NA
MW-3	5/26/94	5.25-20.25	<50	NA	**5,200**	**890**	**180**	**45**	**43**	NA	NA
MW-3	8/24/94	5.25-20.25	<50	NA	**5,200**	**580**	**76**	**29**	**22**	NA	NA
MW-3	11/22/94	5.25-20.25	<50	NA	**2,200**	**670**	**130**	**31**	**28**	NA	NA
MW-3	2/8/95	5.25-20.25	<50	NA	**2,900**	**780**	**120**	**31**	**33**	NA	NA
MW-3	5/31/95	5.25-20.25	NA	NA	**9,100**	**2,800**	**160**	**91**	**72**	NA	NA
MW-3 (D)	5/31/95	5.25-20.25	NA	NA	**5,300**	**1,300**	**170**	**37**	**44**	NA	NA
MW-3	8/28/95	5.25-20.25	NA	NA	**1,400**	<0.5	<0.5	**1.7**	**8.9**	NA	NA
MW-3 (D)	8/28/95	5.25-20.25	NA	NA	**4,800**	**2,500**	**150**	**53**	**44**	NA	NA
MW-3	11/29/95	5.25-20.25	NA	NA	**3,000**	**780**	**43**	**32**	**32**	NA	NA

Table 3
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Screen Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3 (D)	11/29/95	5.25-20.25	NA	NA	**2,400**	**830**	**38**	**21**	**16**	NA	NA
MW-3	2/29/96	5.25-20.25	NA	NA	**3,800**	**1,200**	**130**	**36**	**35**	NA	NA
MW-3 (D)	2/29/96	5.25-20.25	NA	NA	**8,000**	**3,400**	**430**	**100**	**99**	NA	NA
MW-3	5/23/96	5.25-20.25	NA	NA	**6,900**	**3,300**	**340**	**71**	**74**	NA	NA
MW-3 (D)	5/23/96	5.25-20.25	NA	NA	**4,300**	**3,200**	**350**	**72**	**74**	NA	NA
MW-3	11/4/96	5.25-20.25	NA	NA	**4,900**	**2,100**	**110**	**70**	**44**	NA	NA
MW-3 (D)	11/4/96	5.25-20.25	NA	NA	**4,500**	**2,100**	**130**	**61**	**39**	NA	NA
MW-3	5/13/97	5.25-20.25	NA	NA	**10,000**	**4,800**	**530**	**100**	**92**	<100	NA
MW-3	1/26/98	5.25-20.25	NA	NA	**12,000**	**5,000**	**250**	**91**	**100**	NA	NA
MW-3	10/27/00	5.25-20.25	NA	NA	**19,000**	**9,000**	**1,000**	**250**	**130**	NA	NA
MW-3	11/3/03	5.25-20.25	NA	NA	**13,000**	**3,900**	**370**	**300**	**130**	<40	NA
MW-3	6/17/08	5.25-20.25	NA	NA	**13,000**	**4,400**	**600**	**300**	**150**	<100	NA
MW-3	11/6/09	5.25-20.25	**710**	NA	**13,000**	**3,400**	**400**	**310**	**220**	<2.5	**4.1** (1,2-DCA)
MW-3	6/28/10	5.25-20.25	**699**	NA	**22,200**	**1,740**	**2,100**	**318**	**1,060**	<50	ND
MW-3 (D)	6/28/10	5.25-20.25	**722**	NA	**31,000**	**1,560**	**2,210**	**380**	**1,240**	<50	ND
MW-3	8/10/10	5.25-20.25	NA	NA	**12,000**	**1,400**	**1,200**	**190**	**540**	<13	ND
MW-3	12/30/10	5.25-20.25	**36,500**	**3,900**	**22,200**	**1,730**	**2,030**	**406**	**1,530**	<50	ND
MW-3	6/8/11	5.25-20.25	NA	NA	**20,400**	**2,180**	**2,040**	**273**	**765**	<25	ND
MW-3	12/16/11	5.25-20.25	**1,710/832***	**312 J/<190***	**9,000**	**1,220**	**1,290**	**163**	**518**	<25	ND
MW-3 (D)	12/16/11	5.25-20.25	**1,530/2,530***	<570/<750*	**13,200**	**1,590**	**1,680**	**207**	**671**	<50	ND
MW-3	9/13/12	5.25-20.25	**5,040**	**4,710**	**12,800**	**677**	**607**	**161**	**445**	<25	ND
MW-3	4/5/13	5.25-20.25	**1,960**	<950	**14,200**	**1,030**	**547**	**152**	**374**	<20	ND
MW-3 (D)	4/5/13	5.25-20.25	**2,210**	<1,900	**9,970**	**835**	**454**	**142**	**363**	<10	**2.9 J** (1,2-DCA)
MW-3	10/1/13	5.25-20.25	**1,600**	**261**	**3,420**	**317**	**92.8**	**43.7**	**96.0**	<20	ND
MW-3 (D)	10/1/13	5.25-20.25	**1,030**	**136 J**	**6,030 E**	**430**	**145**	**64.5**	**156**	<10	ND
MW-6	1/14/09	10-17	NA	NA	**740**	**66**	**48**	**6.3**	**23**	**1.2**	**17** (1,2-DCA)
MW-6	11/6/09	10-17	**1,200**	NA	**4,500**	**1,300**	**270**	**110**	**44**	<2.5	**39** (1,2-DCA)
MW-6	6/28/10	10-17	**474**	NA	**3,810**	**484**	**284**	**78.7**	**233**	<10	**20.8** (1,2-DCA)
MW-6	8/10/10	10-17	NA	NA	**4,600**	**800**	**160**	**160**	**210**	<6.3	**12** (1,2-DCA)
MW-6	12/30/10	10-17	**2,470**	<380	**9,720**	**1,130**	**469**	**364**	**1,360**	<20	**20.7** (1,2-DCA)
MW-6	6/8/11	10-17	NA	NA	**8,140**	**1,460**	**377**	**206**	**515**	<20	**15.4** (1,2-DCA)
MW-6	12/16/11	10-17	**2,200/874***	**2,350/1,670**	**5,920**	**1,500**	**74.9**	**135**	**254**	<25	**12.4** (1,2-DCA)
MW-6	3/28/12	10-17	**380***	<190*	**2,180**	**347**	**20.5**	**36**	**56**	<5.0	**6.8** (1,2-DCA)
MW-6	9/13/12	10-17	**930**	<190	**3,550**	**557**	**45**	**59.9**	**126**	<10	**5.8** (1,2-DCA)
MW-6	4/5/13	10-17	**350**	<190	**5,090**	**750**	**67.1**	**57.3**	**127**	<10	**6.4** (1,2-DCA)
MW-6	10/1/13	10-17	**1,630**	**126 J**	**6,550 E**	**922**	**77.8**	**84.4**	**168**	<10	**6.1 J** (1,2-DCA) **84.5 J** (TBA)
MW-6	10/16/14	10-17	**1,130**	**200**	**2,460**	**469**	**19.8**	**57.2**	**14.8 J**	<2.0	**41.8** (1,2-DCA) **57.1 J** (Tert-Butyl Alcohol)
MW-6	4/24/15	10-17	**2,450**	**566 J**	**5,990**	**1,160**	**53**	**64.5**	**60.3**	<10	**4.9 J** (1,2-DCA) **39.5 J** (TBA)
MW-6	1/20/16	10-17	**585***	**473***	**2,010**	**262**	**6.0 J**	**10.2**	**6.9 J**	<10	**2.5 J** (IPB) **6.8 J** (n-PrBz)
MW-6	11/2/16	10-17	**791**	**87.6**	**6,160**	**1,880**	**44**	**76.5**	**39.6**	<20	
MW-7	1/14/09	20-28	NA	NA	<50	<0.5	<0.5	<0.5	<0.5	**1.1**	ND
MW-7	11/6/09	20-28	<52	NA	<50	<0.5	<0.5	<0.5	<1.0	**1.3**	ND
MW-7	12/30/10	20-28	<96	<190	<50	<1.0	<1.0	<1.0	<2.0	**1.1**	ND
MW-7	6/8/11	20-28	NA	NA	<50	<1.0	<1.0	<1.0	<2.0	**1.0**	ND
MW-7	12/16/11	20-28	<94*	**832***	<50	**0.67**	<1.0	**0.35 J**	<2.0	**0.88 J**	ND
MW-7 (D)	12/16/11	20-28	<94*	**1,730***	<50	**0.62 J**	<1.0	**0.33 J**	<2.0	**0.91 J**	ND
MW-7	3/28/12	20-28	<94*	<190*	NA	NA	NA	NA	NA	NA	NA
MW-7	9/13/12	20-28	<190	**3,510**	<50	<1.0	<1.0	<1.0	<2.0	**0.41**	ND
MW-7	4/5/13	20-28	<100	<200	<50	<1.0	<1.0	<1.0	<2.0	**0.58**	ND
MW-7	10/1/13	20-28	**87.1 J**	**207**	<50	<1.0	<1.0	<1.0	<2.0	**0.40 J**	ND
MW-7	10/16/14	20-28	**70.6**	**140**	NA	NA	NA	NA	NA	NA	NA
MW-7	4/24/15	20-28	**622**	**795**	NA	NA	NA	NA	NA	NA	NA
MW-7	1/20/16	20-28	**38.1 J***	**61.0 J***	**31.7 J**	<1.0	<1.0	<1.0	<2.0	<1.0	NA

Table 3
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Screen Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-7	11/2/16	20-28	**126**	**86.1**	NA	NA	NA	NA	NA	NA	NA
MW-8	6/28/10	8-18	<100	NA	<50	**0.81J**	**1.3**	**0.41J**	**1.6 J**	**0.62J**	ND
MW-8	12/30/10	8-18	<95	<190	<50	<1.0	<1.0	<1.0	<2.0	0.53J	ND
MW-8	6/8/11	8-18	NA	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-8	12/16/11	8-18	<95*	**155 J***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-8	9/13/12	8-18	**304**	<190	<50	**0.37**	**0.28**	<1.0	<2.0	**0.29**	ND
MW-12	10/16/14	10-20	**39.9**	**63.1**	<25	<0.20	<0.20	<0.20	<0.46	**0.28 J**	ND
MW-12	4/24/15	10-20	**59.9 J**	<190	<50	<1.0	<1.0	<1.0	<2.0	**0.20 J**	**0.27 J** (1,2-DCA)
MW-12	1/20/16	10-20	**50.1 J***	**67.0 J***	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
MW-12	11/2/16	10-20	**285**	**235**	<100	<1.0	<1.0	<1.0	<2.0	<1.0	ND
AS-1S	1/13/09	14-17	NA	NA	**41,000**	**4,100**	**2,700**	**510**	**1,000**	<25	ND
AS-1S	11/6/09	14-17	**1,300**	NA	**3,800**	**950**	**7.3**	**76**	**42**	<0.5	**3.1** (1,2-DCA)
AS-1S	6/28/10	14-17	**214**	NA	**1,630**	**202**	**26.2**	**9.1**	**25.4**	**2.1**	**3.1** (1,2-DCA)
AS-1S	8/10/10	14-17	NA	NA	**1,200**	**370**	**44**	**34**	**34**	<2.5	**2.6** (1,2 DCA)
AS-1S	12/30/10	14-17	**2,790**	<570	**30,000**	**4,530**	**4,040**	**538**	**1,100**	<100	ND
AS-1S	12/15/11	14-17	**1,340***	**582***	**7,640**	**772**	**788**	**290**	**590**	<20	ND
AS-1S	1/20/16	14-17	**2340***	**1010***	**7,700**	**990**	**42.3**	**252**	**244**	**0.21 J**	**41.5** (ace) **12.1** (n-Bubz) **6.8** (sec-Bubz) **0.29 J** (1,1-DCA) **1.7** (1,2-DCA) **56.2** (IPB) **4.3** (PIPT) **2.2** (MC) **6.9 J** (MEK) **194** (NA) **99.0** (n-PrBz) **526** (124TMBZ) **140** (135TMBZ) **1.0** (TCE)
ASMW-2S	1/13/09	10-17	NA	NA	**9,100**	**2,800**	**430**	**140**	**230**	<10	**25** (1,2-DCA)
ASMW-2S	11/6/09	10-17	**2,400**	NA	**18,000**	**4,700**	**540**	**330**	**530**	<2.5	**50** (1,2-DCA), **46** (TBA)
ASMW-2S	6/28/10	10-17	**479**	NA	**8,330**	**416**	**434**	**151**	**583**	<33	ND
ASMW-2S	8/10/10	10-17	NA	NA	**3,200**	**420**	**69**	**61**	**130**	<3.1	**3.4** (1,2 DCA)
ASMW-2S	12/30/10	10-17	**3,440**	<2,000	**5,300**	**447**	**80.1**	**95.0**	**181**	ND<10	**5.7** (1,2 DCA)
ASMW-2S	12/15/11	10-17	**998***	**148***	**2,250**	**253**	**19.8**	**49.9**	**77.4**	<10	ND
ASMW2S	1/20/16	10-17	**946***	**53.8 J***	**2,350**	**139**	**2.4**	**22.4**	**18.9**	**0.97 J**	**13.8** (n-Bubz) **5.4** (sec-Bubz) **2.2** (1,2-DCA) **11.0** (IPB) **2.9** (PIPT) **22.4** (NA) **29.3** (n-PrBz) **0.69 J** (1,2,3-TCP) **98.7** (124TMBZ) **31.5** (135TMBZ)
AS-1D	1/13/09	31-34	NA	NA	<50	**0.69**	**0.54**	<0.5	<0.5	<0.5	ND
AS-1D	11/6/09	31-34	<53	NA	<50	<0.5	<0.5	<0.5	<1.0	<0.5	ND
AS-1D	6/28/10	31-34	<94	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
AS-1D	12/30/10	31-34	<94	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
AS-1D	12/15/11	31-34	**86.2 J***	<190*	**27.6**	**1.7**	**3.1**	**0.54**	**2.3**	<1.0	ND
AS-1D	9/13/12	31-34	**161**	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
AS-1D	4/5/13	31-34	<94	<190	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
AS-1D	10/1/13	31-34	<96	**138 J**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
AS-1D	10/16/14	31-34	**39**	**55.1**	<25	**0.34 J**	<1.0	<0.20	<0.46	<0.20	ND
AS-1D	4/24/15	31-34	**321**	**1,420**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
AS-1D	1/20/16	31-34	**32.3 J***	**70.3 J***	**26.9 J**	<1.0	<1.0	<1.0	<2.0	<1.0	ND
ASMW-2D	1/13/09	24-34	NA	NA	<50	**0.80**	**0.78**	<0.5	<0.5	**0.56**	ND
ASMW-2D	11/6/09	24-34	<51	NA	<50	<0.5	<0.5	<0.5	<1.0	**0.58**	ND
ASMW-2D	6/28/10	24-34	<94	NA	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
ASMW-2D	12/30/10	24-34	<100	<200	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
ASMW-2D	12/15/11	24-34	**96.1***	<190*	<50	**0.76 J**	**0.99**	<1.0	**1.1**	<1.0	ND
AS-MW2D	1/20/16	24-34	**46.4 J***	**61.4 J***	**26.3 J**	<1.0	<1.0	<1.0	<2.0	<1.0	**0.21 J** (1,2,3-TCP)
E1	6/16/10	8-18	NA	NA	**36,000**	**3,200**	**2,300**	**750**	**2,170**	<25	<25
E1	6/30/10	8-18	NA	NA	**124**	**11.7**	**9.4**	**1.5**	**7.7**	<1	0.31 (1,2 DCA)
E1	12/16/11	8-18	**323***	<190*	**1,700**	**55.5**	**22.1**	**16.1**	**27.6**	<5.0	ND

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Oakland, California

Sample Location	Date Collected	Screen Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
E-1	1/20/16	8-18	**203***	**65.8 J***	**2,890**	**637**	**84.4**	**5.8**	**0.66 J**	<1.0	**6.9 J** (ace) **1.2 J** (n-Bubz) **1.1 J** (sec-Bubz) **0.94 J** (1,2-DCA) **7.3** (IPB) **0.34 J** (PIPT) **6.5 J** (MIBK) **1.3** (MC) **15.1**(NA) **5.4** (n-PrBz) **3.8 J** (TBA) **0.34 J** (1,2,3-TCP) **32.7** (124TMBZ) **10.6** (135TMBZ) **0.25 J** (TCE)
E2	6/16/10	8-18	NA	NA	**72**	**5.3**	**5.9**	**0.89**	**4.9**	**2.1**	**0.68** (1,2 DCA)
E2	6/30/10	8-18	NA	NA	<50	<1.0	<1.0	<1.0	<2.0	**2.0**	**0.5** (1,2 DCA)
E2	12/30/10	8-18	<190	**3,740**	<50	<1.0	<1.0	<1.0	<2.0	**1.8**	0.41 (1,2 DCA)
E2	6/8/11	8-18	NA	NA	<50	<1.0	<1.0	<1.0	<2.0	**1.7**	0.45 (1,2-DCA)
E2	12/15/11	8-18	<95/<96*	**1,570/1,270***	<50	<1.0	<1.0	<1.0	<2.0	**1.2**	ND
E2	3/28/12	8-18	**245***	**387***	NA	NA	NA	NA	NA	NA	NA
E2	9/13/12	8-18	<190	**2,990**	<50	<1.0	<1.0	<1.0	<2.0	**0.57 J**	**0.36 J** (1,2-DCA)
E2	4/5/13	8-18	<470	**5,100**	<50	<1.0	<1.0	<1.0	<2.0	<1.0	ND
E2	10/1/13	8-18	**444**	**870**	<50	<1.0	<1.0	<1.0	<2.0	**0.57 J**	**0.24 J** (1,2-DCA)
E2	10/16/14	8-18	**780**	**1,080**	NA	NA	NA	NA	NA	NA	NA
E2	5/1/15	8-18	<300	**2,160**	NA	NA	NA	NA	NA	NA	NA
E2	1/20/16	8-18	**206***	**318***	**25.9 J**	<1.0	<1.0	<1.0	<2.0	**0.36 J**	ND
E3	12/16/11	8-18	**13,900***	**15,600***	**185**	**1.2**	<1.0	<1.0	<2.0	**0.74 J**	**1.0** (1,2-DCA)
E3	3/28/12	8-18	**1,060***	**1,860***	**151**	**1.4**	<1.0	<1.0	<2.0	**0.53 J**	**0.76 J** (1,2-DCA)
E3	9/13/12	8-18	**62,500**	**93,700**	**46.8**	**0.56**	<1.0	<1.0	<2.0	**0.55 J**	**0.99 J** (1,2-DCA)
E3	4/5/13	8-18	<24,000	**357,000**	**161**	**1.0**	<1.0	<1.0	<2.0	**0.43 J**	**0.71 J** (1,2-DCA)
E3	10/1/13	8-18	**20,700**	**34,500**	**82.6**	**1.6**	<1.0	<1.0	<2.0	**0.46 J**	**0.73 J** (1,2-DCA)
E3	10/16/14	8-18	**106,000**	**153,000**	**355**	**3.3**	<1.0	<0.20	<2.0	**0.46 J**	**4.5 J** (Tert-Butyl Alcohol)
E3	4/24/15	8-18	<38,000	**416,000**	**48.6 J**	<1.0	<1.0	<1.0	<2.0	**0.31 J**	0.36 J (1,2-DCA)
E3	1/20/16	8-18	**56300***	**102000***	**60.1**	**1.7**	<1.0	<1.0	<2.0	0.25 J	**0.30 J** (1,2-DCA) **0.21 J** (IPB) **0.39 J** (n-PrBz)
E4	12/16/11	8-18	**264***	**447***	**1,580**	**240**	**9.9**	**18.3**	**5.8 J**	<5.0	**2.7** (1,2-DCA)
E-4	1/20/16	8-18	**76.1 J**	**102 J**	**530**	**90.4**	**1.4**	**4.2**	**0.66 J**	<1.0	**0.70 J** (n-Bubz) **0.39 J** (sec-Bubz) **0.66 J** (tert-Bubz) **0.85 J** (1,2-DCA) **1.9** (IPB) **1.7 J** (NA) **4.5** (n-PrBz) **0.26 J** (1,2,3-TCP) **0.20 J** (124TMBZ)
E-4 (D)	1/20/16	8-18	**70.7 J***	**61.3 J***	**596**	**81.5**	**1.2 J**	**3.5**	<4.0	<2.0	**0.61 J** (n-Bubz) **0.67 J** (1,2-DCA) **1.4 J** (IPB) **1.9 J** (NA) **3.8 J** (n-PrBz)
E5	12/15/11	8-18	**11,100***	**11,500***	**27.1 J**	<1.0	<1.0	<1.0	<2.0	**0.83 J**	ND
E5	10/16/14	8-18	**25,300**	**32,500**	<25	<0.20	<0.20	<0.20	<0.46	**0.42 J**	ND
E5	4/24/15	8-18	<2,000	**26,300**	<50	<1.0	<1.0	<1.0	<2.0	**0.45 J**	ND
E-5	1/20/16	8-18	**1490***	**2250***	<50	<1.0	<1.0	<1.0	<2.0	**0.24 J**	ND
E6	12/15/11	8-18	**1,460***	**931***	**617**	**17.6**	<2.0	**3.3**	<4.0	<2.0	ND
E6	3/28/12	8-18	93.9 J*	**191***	**273**	**4.4**	<1.0	**2.8**	<2.0	**0.78 J**	ND
E6	9/13/12	8-18	<190	**2,440**	**427**	**2.8**	<1.0	**2.3**	<2.0	**0.85**	ND
E6	4/5/13	8-18	<480	**3,210**	**529**	**2.2**	<1.0	**4.3**	<2.0	**0.69**	ND
E6	10/1/13	8-18	**262**	**617**	**520**	**3.6**	<1.0	**4.5**	<2.0	**0.63 J**	ND
E6	10/16/14	8-18	**1,660**	**1,850**	**135**	**0.30 J**	<0.20	**0.24 J**	<0.46	**0.45 J**	ND
E6	4/24/15	8-18	<190	**2,390**	**233**	<1.0	<1.0	<1.0	<2.0	**0.35 J**	ND
E-6	1/20/16	8-18	**176***	**329***	**144**	0.88 J	<1.0	**1.6**	<2.0	**0.26 J**	**0.23 J** (n-Bubz) **0.91 J** (tert-Bubz) **0.72 J** (IPB) **1.6 J** (n-PrBz)
E7	6/16/10	8-18	NA	NA	**780**	**100**	**73**	**20**	**80**	**5.2**	**1.9** (1,2 DCA)
E7	6/30/10	8-18	NA	NA	**3,460**	**207**	**258**	<25	**360**	**3.8**	**2.5** (1,2 DCA)
E7	12/30/10	8-18	**1,360**	<190	**3,380**	**339**	**20.0**	**83.3**	**23.9**	**5.4**	**3.5** (1,2 DCA)
E7	6/8/11	8-18	NA	NA	**1,580**	**143**	**17.4**	**26.9**	**21.7**	**4.3**	**2.2** (1,2-DCA)
E7	12/15/11	8-18	**373/287***	**<190/<190***	**1,070**	**144**	**29.5**	**16**	**27.2**	**4.4**	**3.1** (1,2-DCA)
E7	3/28/12	8-18	**53.8 J***	<190*	**806**	**97**	**11.9**	**12.9**	**18.4**	**3.2**	**1.6 J** (1,2-DCA)

Table 3
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Screen Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
E7	9/13/12	8-18	**214**	<200	**1,790**	**169**	**67.3**	**27.8**	**82.3**	**3.5**	**2.6** (1,2-DCA)
E7	4/5/13	8-18	**75.1**	<190	**1,060**	**125**	**20.9**	**17.4**	**28.7**	**3.3**	**1.9 J** (1,2-DCA)
E7	10/1/13	8-18	**1,490**	**2,220**	**917**	**143**	**23.2**	**16.0**	**29.7**	**1.2 J**	**1.8 J** (1,2-DCA)
E7	10/16/14	8-18	**7,920**	**14,100**	**724**	**86.4**	**17.7**	**12.2**	**33.7**	**1.4**	**1.3** (1,2-DCA)
E7	4/24/15	8-18	<950	**11,400**	**524**	**16.1**	**1.4**	**0.53 J**	**7.3**	**0.59 J**	**1.7** (1,2-DCA), **14** (TBA)
E-7	1/20/16	8-18	**469**	**919**	**795**	**159**	**15.0**	**11.3**	**24.5**	**1.1**	**4.6 J** (ace) **1.2 J** (tert-Bubz) **1.2** (1,2-DCA) **1.2** (IPB) **2.5 J** (NA) **1.6 J** (n-PrBz) **9.5 J** (TBA) **2.0** (124TMBZ) **0.21 J** (135TMBZ)
E8	12/30/10	8-18	**1,220**	<190	**8,930**	**480**	**19.1**	**164**	**51.8**	<10	**4.8** (1,2-DCA)
E8	6/8/11	8-18	NA	NA	**3,520**	**178**	**9.6**	**55.7**	**49.5**	<5	**2.7** (1,2-DCA)
E8	12/15/11	8-18	**508***	<190*	**2,000**	**208**	**4.0**	**42.9**	**14.0**	<5.0	ND
E8	3/28/12	8-18	**64 J***	<190*	**1,380**	**92**	**4.0**	**20.3**	**26.5**	<4.0	**13 J** (TBA)
E8	9/13/12	8-18	**314**	<200	**2,450**	**2.0**	<5.0	<5.0	<10	**2.8**	ND
E8	4/5/13	8-18	**1,420**	**1,010**	**4,750**	**707**	**61**	**118**	**119**	<5.0	**3.6** (1,2-DCA)
E8	10/1/13	8-18	**529**	**569**	**1,500**	**178**	**6.0**	**32.3**	**29.8**	**0.49 J**	**3.6** (1,2-DCA) **12.7 J** (TBA)
E8	10/16/14	8-18	**1,120**	**1,030**	**4,090**	**385**	**8.2 J**	**172**	**139**	<2.0	ND
E8 (D)	10/16/14	8-18	**649**	**458**	**4,390**	**398**	<1.0	**180**	**145**	<2.0	ND
E9	12/15/11	8-18	**7,950***	<190*	**35,100**	**4,810**	**5,710**	**768**	**3,260**	<100	ND
E9	3/28/12	8-18	**894***	<190*	**24,200**	**2,440**	**2,550**	**396**	**1,810**	<100	ND
E9	10/16/14	8-18	**4,910**	**490**	**39,300**	**2,460**	**2,250**	**595**	**3,110**	<20	**0.85 J** (1,2-DCA)
E9	4/24/15	8-18	**250,000**	<58,000	**25,700**	**2,150**	**626**	**194**	**3,670**	<50	ND
E9 (D)	4/24/15	8-18	**123,000**	<38,000	**25,600**	**2,070**	**623**	**166**	**3,500**	<100	ND
E-9	1/20/16	8-18	**24500/19700***	<9,600/<3,800*	**16,100**	**1,180**	**427**	**212**	**966**	<50	**23.3 J** (IPB) **54.6 J** (n-PrBz) **1040** (124TMBZ) **322** (135TMBZ)
E-9 (D)	1/20/16	8-18	**15300/11900***	**<3,800/663 J***	**12,600**	**993**	**376**	**188**	**922**	**1.3**	**10.9** (ace) **53.9** (n-Bubz) **10.2** (sec-Bubz) **6.4** (1,2-DCA) **32.7** (IPB) **10.2** (PIPT) **2.0** (MC) **186** (NA) **65.3** (n-PrBz) **15.4** (TBA) **1010** (124TMBZ) **322** (135TMBZ) **2.2** (TCE)
E10	12/15/11	8-18	**10,400***	<190*	**32,800**	**4,350**	**6,450**	**667**	**2,880**	<100	**37** (1,2-DCA)
E10	3/28/12	8-18	**1,630***	<190*	**30,000**	**3,090**	**4,140**	**515**	**2,310**	<100	**20.6 J** (1,2-DCA)
E11	6/16/10	8-18	NA	NA	**25,000**	**1,800**	**1,500**	**480**	**980**	<13	<13
E11	6/30/10	8-18	NA	NA	**15,300**	**268**	**509**	**473**	**1,140**	<40	<40
E11	12/16/11	8-18	**3,920***	<970*	**17,200**	**634**	**916**	**384**	**934**	<50	ND
E11	3/28/12	8-18	**960***	<190*	**15,700**	**377**	**544**	**237**	**902**	<50	ND
E12	6/16/10	8-18	NA	NA	**4,300**	**190**	**15**	**43**	**49**	<2	**2.0** (1,2 DCA)
E12	6/30/10	8-18	NA	NA	**1,570**	**130**	**6.6**	<3	**24.2**	<3	<3
E12	12/16/11	8-18	**69.9 J***	<190*	**297**	**27.5**	**1.1 J**	**3.2**	<4.0	<2.0	ND
E12	9/13/12	8-18	**88.8**	<190	**633**	**50.8**	**2.6**	**7.2**	**2.7**	<1.0	**18.9** (TBA)
E12	4/5/13	8-18	**62.4**	<190	**496**	**64.1**	**3.3**	**8.1**	**3.0**	<1.0	ND
E12	10/1/13	8-18	<96	**142 J**	**347**	**28.4**	**1.2**	**4.8**	**1.3 J**	<1.0	ND
E12	10/16/14	8-18	**31.4**	**48.5**	**113**	**9.0**	**0.24 J**	**1.4**	<0.46	<0.20	**0.40 J** (1,2-DCA)
LFR Area 5 - Suspected Former UST near Groundwater Monitoring Well MW-4											
MW-4	11/16/92	5.25-20.25	<50	NA	**560**	**66**	**73**	**16**	**130**	NA	NA
MW-4 (D)	11/16/92	5.25-20.25	<50	NA	**520**	**63**	**67**	**15**	**140**	NA	NA
MW-4	3/9/93	5.25-20.25	<50	NA	**750**	**67**	**12**	**29**	**62**	NA	NA
MW-4	7/21/93	5.25-20.25	<50	NA	**250**	**21**	**4.2**	**8.4**	**11**	NA	NA
MW-4	1/29/94	5.25-20.25	<50	NA	**180**	**28**	**2.2**	**6.2**	**10**	NA	NA
MW-4	5/26/94	5.25-20.25	NA	NA	**130**	**14**	**3.2**	**6.1**	**4.7**	NA	NA
MW-4	8/24/94	5.25-20.25	NA	NA	**70**	**6.7**	**0.9**	**2.8**	**2.6**	NA	NA
MW-4	11/22/94	5.25-20.25	NA	NA	**90**	**16**	**1.7**	**5.6**	**3.4**	NA	NA
MW-4	2/8/95	5.25-20.25	NA	NA	**90**	**17**	**1.3**	**5.5**	**3.0**	NA	NA

Table 3
Summary of Historical Analytical Results for Groundwater
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Screen Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-4	5/31/95	5.25-20.25	NA	NA	**90**	**13**	**0.6**	**2.3**	**1.2**	NA	NA
MW-4	8/8/95	5.25-20.25	NA	NA	**80**	**3.6**	<0.5	**1.4**	**0.6**	NA	NA
MW-4	11/29/95	5.25-20.25	NA	NA	<50	**4.5**	**0.7**	**1.0**	**0.7**	NA	NA
MW-4	2/29/96	5.25-20.25	NA	NA	<50	**7.4**	**1.0**	**3.2**	**2.4**	NA	NA
MW-4	5/23/96	5.25-20.25	NA	NA	**80**	**11**	**2.0**	**2.3**	**1.0**	NA	NA
MW-4	11/3/03	5.25-20.25	<50	NA	<50	**6.3**	**0.56**	**3.4**	**1.0**	<2.0	NA
MW-4	6/18/08	5.25-20.25	<50	NA	**81**	**11**	**0.51**	**4.7**	**1.6**	<0.5	ND
MW-4	11/6/09	5.25-20.25	<50	NA	<50	**4.0**	<0.5	**1.3**	<1.0	<0.5	ND
MW-4	6/28/10	5.25-20.25	<100	NA	**186**	**12.3**	**0.85**	**5.9**	**2.3**	<1.0	ND
MW-4	12/30/10	5.25-20.25	<94	<190	**77.4**	**7.4**	<1.0	**2.6**	**0.98**	<1.0	ND
MW-4	6/8/11	5.25-20.25	NA	NA	**94.2**	**10.2**	**0.59**	**3.4**	**1.60**	<1.0	ND
MW-4	12/16/11	5.25-20.25	<97*	**130 J***	<50	**2.6**	<1.0	<1.0	<2.0	<1.0	ND
MW-4	9/13/12	5.25-20.25	83 J	<190	**34.3 J**	**5.4**	**0.51 J**	**0.82 J**	**0.73 J**	<1.0	ND
MW-4	4/5/13	5.25-20.25	<95	<190	**97.9**	**11**	**0.57 J**	**1.3**	**0.98 J**	<1.0	ND
MW-4	10/1/13	5.25-20.25	<98	<200	<50	**3.5**	<1.0	**0.58 J**	<2.0	<1.0	ND
MW-4	10/16/14	5.25-20.25	28.6	**72**	**66.2**	**6.3**	**0.29 J**	**0.49 J**	<2.0	<0.46	ND
MW-4	5/1/15	5.25-20.25	91.8 J	**99.3 J**	<50	**5.7**	**0.45 J**	**1.9**	**3.1**	<1.0	ND
Tier 1 ESLs - Groundwater *is* current or potential drinking water source			**100**	**100**	**100**	**1.0**	**40**	**13**	**20**	**5.0**	**0.5 (1,2-DCA), 12 (TBA)**

Notes:
bgs = below ground surface
µg/L = micrograms per liter
Bold Font denotes concentration was greater than the ESL.
NA = parameter not analyzed
ND = parameter not present above laboratory reporting limits
(D) = duplicate sample
<6.0 = not detected at or above the laboratory reporting limit.
E = Indicates value exceeds calibration range
J = Estimated value above method detection limit but below laboratory reporting limit.
n-PrBz = n-Propylbenzene
ARO 1254 = Aroclor 1254
ARO 1016 = Aroclor 1016
ace = Acetone
n-Bubz = n-butylbenzene
sec-Bubz = sec-butylbenzene
PIPT = p-Isopropyltoluene
MIBK = 4-methyl-2-pentanone
NA= Naphthalene
MC= methyl chloride
124TMBZ = 1,2,4-Trimethylbenzene
135TMBZ = 1,3,5-Trimethybenzene
TCE= Trichloroethylene
tert-Bubz = tert-Butylbenzene
1,1-DCA = 1,1-Dichloroethane
MEK = Methyl ethyl ketone
ESL = San Francisco Bay Regional Water Quality Control Board (RWQCB) Environmental Screening Levels Table F-1a and Table F-1b RWQCB February 2016.
* = TPH Extractable with Silica Gel Cleanup

APPENDIX A

GROUNDWATER SAMPLING FIELD FORMS

WELL GAUGING DATA

Project # 161102-CM1 Date 11/2/16 Client SG1

Site 9201 SAN LEANDRO ST, OAKLAND

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0830	4					6.14	19.99		
MW-2	UNABLE	TO	ACCESS.	COVERED	BY	EQUIPMENT				
MW-4	UNABLE	TO	ACCESS,	COVERED	BY	PALLETS				
MW-5	0834	4					5.85	20.08		
MW-6	0845	2					7.31	16.38		
MW-7	0850	2					7.09	27.13		
MW-9	0850	2					6.13	16.78		
MW-10	0845	2					5.73	21.24		
MW-11	0839	2					5.74	19.37		
MW-12	0903	2					7.03	19.51		
E-2	0856	2					7.18	18.30		
E-3	UNABLE	TO	ACCESS.	COVERED	BY	PALLETS				
E-5	0907	2					7.09	18.07		
E-6	0915	2					7.08	18.11		
E-7	0924	2					7.42	18.20		
E-9	0936	2					7.08	17.88		
AS-1D	0918	2					6.81	32.91	↓	

ELL MONITORING DATA SHEET

Project #: 161102 - CK1	Client: SGI
Sampler: GR	Date: 11/02/2016
Well I.D.: MW-1	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 19.99	Depth to Water (DTW): 6.14
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.91	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; ~~Electric Submersible~~; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; ~~Disposable Bailer~~; Extraction Port; Dedicated Tubing; Other: _____

9.0 (Gals.) X 3 = 27.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1029	20.8	6.28	862	8	9.0	
1031	20.5	6.45	861	15	18.0	
1033	20.4	6.50	859	16	27.0	DTW - 11.37

Did well dewater? Yes (No) Gallons actually evacuated: 27.0

Sampling Date: 11/02/16 Sampling Time: 1040 Depth to Water: 8.80 (Short wait)

Sample I.D.: MW-1 Laboratory: Kiff CalScience ~~Other~~ Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) ~~Other~~: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.16 mg/L	Post-purge:	0.12 mg/L	
O.R.P. (if req'd):	Pre-purge:	131 mV	Post-purge:	106 mV	

ELL MONITORING DATA SHEET

Project #: 161102-CK1	Client: SGI
Sampler: CK	Date: 11/2/16
Well I.D.: MW-2	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

____(Gals.) X ____ = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	UNABLE TO ACCESS					
	EQUIPMENT COVERING WELL					
	NO SAMPLE					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SHEET

Project #: 161102-CLE1	Client: SG1
Sampler: CH	Date: 11/2/16
Well I.D.: MW-4	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other ____

Sampling Method: Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ____

____ (Gals.) X ____ = ____ Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	UNABLE TO ACCESS					
	COVERED BY PALLETS					
	NO	SAMPLE				

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:		mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:		mV	Post-purge:	mV

ELL MONITORING DATA SHEET

Project #: 161102 - CK1	Client: SGE
Sampler: GR	Date: 11/02/2016
Well I.D.: MW-5	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 20.05	Depth to Water (DTW): 5.95
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.69	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

1 Case Volume	Specified Volumes	Calculated Volume
9.2 (Gals.) X	3 =	27.6 Gals.

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1057	21.1	6.68	585	16	9.5	
1059	20.8	6.70	595	5	19.0	
1101	20.6	6.71	595	4	28.5	DTW - 8.43

Did well dewater? Yes (No) Gallons actually evacuated: 28.5

Sampling Date: 11/02/16 Sampling Time: 1105 Depth to Water: 8.43

Sample I.D.: MW-5 Laboratory: Kiff CalScience (Other Accutest)

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other: See COC)

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.19 mg/L	Post-purge:	0.14 mg/L	
O.R.P. (if req'd):	Pre-purge:	95 mV	Post-purge:	-19 mV	

ELL MONITORING DATA SHEET

Project #: 161102-cc1	Client: 961
Sampler: CW	Date: 11/2/16
Well I.D.: mw-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 16.38	Depth to Water (DTW): 7.31
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (RVE) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.12	

Purge Method: Bailer, (Disposable Bailer), Positive Air Displacement, Electric Submersible, Waterra, Peristaltic, Extraction Pump, Other_____

Sampling Method: Bailer, (Disposable Bailer), Extraction Port, Dedicated Tubing, Other: _____

1.5 (Gals.) X 3 = 4.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1256	19.5	7.07	1684	71000	1.5	LIGHT BROWN / ODOR
1259	19.5	7.05	1687	71000	3.0	↓ ↓
1302	19.5	7.04	1688	71000	4.5	↓ ↓
	6x HCl	VOAs	2x1L AGB			

Did well dewater? Yes (No) Gallons actually evacuated: 4.5

Sampling Date: 11/2/16 Sampling Time: 1305 Depth to Water: 7.80

Sample I.D.: mw-6 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other): See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.37 mg/L	Post-purge:	0.42 mg/L	
O.R.P. (if req'd):	Pre-purge:	-132 mV	Post-purge:	-126 mV	

ELL MONITORING DATA SHEET

Project #: 161102-CK1	Client: SG1
Sampler: CK	Date: 11/2/16
Well I.D.: MW-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 27.13	Depth to Water (DTW): 7.09
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.10	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

3.2 (Gals.) X 3 = ~~12.6~~ 9.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1000	18.9	7.09	925	49	3.5	clouy
1001	18.9	7.12	916	31	7.0	clear
1002	18.9	7.12	915	30	10.5	↓
2x	1L ALS					

Did well dewater? Yes (No) Gallons actually evacuated: 10.5

Sampling Date: 11/2/16 Sampling Time: 1005 Depth to Water: 8.20

Sample I.D.: MW-7 Laboratory: Kiff CalScience Other Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

TRIP Blank EB I.D. (if applicable): TB-1 @ Time 0800 Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.63 mg/L	Post-purge:	0.38 mg/L	
O.R.P. (if req'd):	Pre-purge:	283 mV	Post-purge:	245 mV	

ELL MONITORING DATA SHEET

Project #: 161102-C1e1	Client: SGR
Sampler: GR	Date: 11/02/2016
Well I.D.: MW-9	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 16.78	Depth to Water (DTW): 6.13
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.26	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

1.7 (Gals.) X 3 = 5.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1237	20.2	6.77	1073	>1000	2.0	
1239	20.1	6.81	1067	242	4.0	
1240	20.2	6.85	1067	105	6.0	DTW - 6.15

Did well dewater? Yes (No) Gallons actually evacuated: 6.0

Sampling Date: 11/02/16 Sampling Time: 1250 Depth to Water: 6.15

Sample I.D.: MW-9 Laboratory: Kiff CalScience (Other) Accutes

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other): See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.18 mg/L	Post-purge:	0.03 mg/L	
O.R.P. (if req'd):	Pre-purge:	13 mV	Post-purge:	-13 mV	

ELL MONITORING DATA SHEET

Project #: 161102-GR1	Client: SGE
Sampler: GR	Date: 11/02/2016
Well I.D.: MW-10	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 21.24	Depth to Water (DTW): 5.73
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.83	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

2.5 (Gals.) X 3 = 7.5 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1205	20.3	6.86	753	>1000	2.5	
1206	20.2	6.88	759	832	5.0	
1207	20.3	6.91	765	460	7.5	DTW - 5.83

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Date: 11/02/16 Sampling Time: 1215 Depth to Water: 5.83

Sample I.D.: MW-10 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other) See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.14 mg/L	Post-purge:	0.02	mg/L
O.R.P. (if req'd):	Pre-purge:	42 mV	Post-purge:	21	mV

ELL MONITORING DATA SHEET

Project #: 161102 - CK1	Client: SGB
Sampler: GR	Date: 11/02/2016
Well I.D.: MW-11	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 19.37	Depth to Water (DTW): 5.74
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.47	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other ___

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: ___

2.2 (Gals.) X 3 = 6.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1138	20.6	6.77	557	267	2.5	odor
1139	20.5	6.79	552	82	5.0	
1140	20.6	6.82	551	42	7.5	DTW - 5.98

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Date: 11/02/16 Sampling Time: 1145 Depth to Water: 5.98

Sample I.D.: MW-11 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other) See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.17 mg/L	Post-purge:	0.05	mg/L
O.R.P. (if req'd):	Pre-purge:	26 mV	Post-purge:	-24	mV

ELL MONITORING DATA SHEET

Project #: 161102-CK1	Client: SGE
Sampler: GR	Date: 11/02/2016
Well I.D.: MW-12	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 19.51	Depth to Water (DTW): 7.03
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.53	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other:_____

2.0 (Gals.) X 3 = 6.0 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1304	20.6	6.82	1113	800	2.0	
1305	20.5	6.81	1143	150	4.0	
1306	20.6	6.82	1136	43	6.0	DTW - 7.05

Did well dewater? Yes (No) Gallons actually evacuated: 6.0

Sampling Date: 11/02/16 Sampling Time: 1315 Depth to Water: 7.05

Sample I.D.: MW-12 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.18 mg/L	Post-purge:	0.34 mg/L	
O.R.P. (if req'd):	Pre-purge:	42 mV	Post-purge:	35 mV	

ELL MONITORING DATA SHEET

Project #: 161102 - Cle1	Client: SGI
Sampler: CK	Date: 11/2/16
Well I.D.: E-2	Well Diameter: 2 3 4 6 8 ___
Total Well Depth (TD): 18.30	Depth to Water (DTW): 7.18
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.40	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

1.8 (Gals.) X 3 = 5.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1044	19.2	6.98	1382	>1000	2.0	GRAY
1047	19.2	7.01	1384	>1000	4.0	↓
1050	19.2	7.01	1388	>1000	6.0	↓
	2x1L AGB					

Did well dewater? Yes (No) Gallons actually evacuated: ~~7.36~~ 6.0

Sampling Date: 11/2/16 Sampling Time: 1055 Depth to Water: 7.36

Sample I.D.: E-2 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other:) See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.42 mg/L	Post-purge:	0.39 mg/L	
O.R.P. (if req'd):	Pre-purge:	-77 mV	Post-purge:	-80 mV	

ELL MONITORING DATA SHEET

Project #: 161102-CW1	Client: SGI
Sampler: CW	Date: 11/2/16
Well I.D.: E-3	Well Diameter: 2 3 4 6 8 ____
Total Well Depth (TD):	Depth to Water (DTW):
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: PVC Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]:	

Purge Method: Bailer / Waterra
Disposable Bailer / Peristaltic
Positive Air Displacement / Extraction Pump
Electric Submersible / Other ____

Sampling Method: Bailer
Disposable Bailer
Extraction Port
Dedicated Tubing
Other: ____

____ (Gals.) X ____ = ____ Gals.
1 Case Volume / Specified Volumes / Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
	UNABLE TO ACCESS					
	COVERED BY PARKED CARS					
	NO SAMPLE					

Did well dewater? Yes No Gallons actually evacuated:

Sampling Date: Sampling Time: Depth to Water:

Sample I.D.: Laboratory: Kiff CalScience Other ____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

ELL MONITORING DATA SHEET

Project #: 161102-CK1	Client: SGI
Sampler: CK	Date: 11/2/16
Well I.D.: E-5	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 18.07	Depth to Water (DTW): 7.09
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.29	

Purge Method: Bailer; ~~Disposable Bailer~~; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; ~~Disposable Bailer~~; Extraction Port; Dedicated Tubing; Other: _____

1.8 (Gals.) X 3 = 5.4 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1021	19.5	6.97	1261	71000	2.0	GRAY / ODOR
1023	19.8	6.96	1208	71000	4.0	↓ ↓
1025	19.8	6.96	1203	71000	6.0	↓ ↓
2x	(6x 40ml VOAs HCl			2x 1L AGS)		

Did well dewater? Yes (No) Gallons actually evacuated: 6.0

Sampling Date: 11/2/16 Sampling Time: 1030 Depth to Water: 7.20

Sample I.D.: E-5 Laboratory: Kiff CalScience (Other) Alcontest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): DUP-1 @ 1035

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.40 mg/L	Post-purge:	0.27 mg/L	
O.R.P. (if req'd):	Pre-purge:	-64 mV	Post-purge:	-90 mV	

ELL MONITORING DATA SHEET

Project #: 161102-061	Client: SBI
Sampler: CM	Date: 11/2/16
Well I.D.: E-6	Well Diameter: (2) 3 4 6 8 ____
Total Well Depth (TD): 18.11	Depth to Water (DTW): 7.08
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.29	

Purge Method: Bailer / (Disposable Bailer) / Positive Air Displacement / Electric Submersible / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: Bailer / (Disposable Bailer) / Extraction Port / Dedicated Tubing / Other: _____

1.8 (Gals.) X	3 =	5.4 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1108	20.0	7.05	1154	71000	2.0	cloudy
1111	20.0	7.10	1156	71000	4.0	"
1114	20.0	7.11	1157	71000	6.0	"
	6x HCl	VOAs	2x 1L AMB			

Did well dewater? Yes (No) Gallons actually evacuated: 6.0

Sampling Date: 11/2/16 Sampling Time: 1117 Depth to Water: 7.36

Sample I.D.: E-6 Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other): 5bb Coc

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.55 mg/L	Post-purge:	0.41	mg/L
O.R.P. (if req'd):	Pre-purge:	-80 mV	Post-purge:	-95	mV

WELL MONITORING DATA SHEET

Project #: 161102-CK1	Client: 361
Sampler: CK	Date: 11/2/16
Well I.D.: E-7	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 18.20	Depth to Water (DTW): 7.42
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.58	

Purge Method: Bailer; (Disposable Bailer); Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: _____

1.7 (Gals.) X 3 = 5.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1140	20.8	7.06	2037	71000	2.0	GRAY
1143	20.8	7.03	1964	170	4.0	CLOUDY
1146	20.8	7.03	1958	165	6.0	↓
	6x HCl	VOAs	2x 1L AGBs			

Did well dewater? Yes (No) Gallons actually evacuated: 6.0

Sampling Date: 11/2/16 Sampling Time: 1150 Depth to Water: 7.50

Sample I.D.: E-7 Laboratory: Kiff CalScience (Other) ~~Accutest~~

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other): See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.43 mg/L	Post-purge:	0.40	mg/L
O.R.P. (if req'd):	Pre-purge:	-107 mV	Post-purge:	-105	mV

ELL MONITORING DATA SHEET

Project #: 161102-CK1	Client: SG1
Sampler: CK	Date: 11/2/16
Well I.D.: E-9	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 17.88	Depth to Water (DTW): 7.08
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.24	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; Electric Submersible; Waterra; Peristaltic; Extraction Pump; Other_____

Sampling Method: Bailer; Disposable Bailer; Extraction Port; Dedicated Tubing; Other: _____

1.7 (Gals.) X 3 = 5.1 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1230	20.3	6.95	1334	71000	2.0	CLEAR, ODOR, SHEEN
1233	20.3	6.92	1329	71000	4.0	↓ ↓ ↓
1236	20.3	6.92	1327	71000	6.0	
	6x HCl	VOAs	2x1L Amb			

Did well dewater? Yes (No) Gallons actually evacuated: 6.0

Sampling Date: 11/2/16 Sampling Time: 1240 Depth to Water: 7.15

Sample I.D.: E-9 Laboratory: Kiff CalScience Other Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.60 mg/L	Post-purge:	0.57 mg/L
O.R.P. (if req'd):	Pre-purge:	-134 mV	Post-purge:	-130 mV

ELL MONITORING DATA SHEET

Project #: 161102-CK1	Client: SGI
Sampler: GR	Date: 11/02/2016
Well I.D.: AS-1D	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth (TD): 32.91	Depth to Water (DTW): 6.81
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.03	

Purge Method: Bailer; Disposable Bailer; Positive Air Displacement; (Electric Submersible); Waterra; Peristaltic; Extraction Pump; Other ____

Sampling Method: Bailer; (Disposable Bailer); Extraction Port; Dedicated Tubing; Other: ____

4.2 (Gals.) X 3 = 12.6 Gals.
1 Case Volume | Specified Volumes | Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
1357	21.6	7.40	209	181	4.5	
1359	21.5	7.42	205	96	9.0	
1401	21.6	7.46	201	78	13.5	DTW - 6.99

Did well dewater? Yes (No) Gallons actually evacuated: 13.5

Sampling Date: 11/02/16 Sampling Time: 1420 Depth to Water: 6.99

Sample I.D.: AS-1D Laboratory: Kiff CalScience (Other) Accutest

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) (Other) see COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	0.29 mg/L	Post-purge:	0.63	mg/L
O.R.P. (if req'd):	Pre-purge:	38 mV	Post-purge:	11	mV

WELLHEAD INSPECTION CHECKLIST

Client SGI Date 11/2/16

Site Address 9201 SAN LEANDRO ST, OAKLAND

Job Number 161102-CM1 Technician CM / GR

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
MW-1	X							
MW-2	UNABLE	TO ACCESS.		COVERED				
MW-4	UNABLE	TO	ACCESS	COVERED				
MW-5						X		
MW-6						X		
MW-7						X		
MW-9	X							
MW-10		X						
MW-11		X						
MW-12						X		
E-2						X		
E-3	UNABLE	TO	ACCESS	COVERED				
E-5	X							
E-6	X							
E-7						X		
E-9						X		
AS-1D						X		

NOTES: MW-7 2/2 TABS BROKEN E-2 2/2 TABS STRIPPED

E-7 2/2 TABS STRIPPED. WELL BOX BELOW GRADE, CAP CRUSHED

E-9 -1/2 BOLTS MW-6 -2/2 BOLTS MW-5 WELL LID MISSING

MW-12 2/2 TABS BROKEN

AS-1D 2/2 TABS BROKEN

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME SG1 @ PACO Pumps OAKLAND				PROJECT NUMBER 161102-CK1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
MYRON L ULTRAMETER	10242107	11/21/16 0815	3900 CONDUCT	3903	Y		CK
"	"	"	pH 7.00 10.00 4.00	7.02 10.03 4.01	Y		CK
"	"	"	ORP 240.0	240	Y	17°C	CK
YSI 550	BTS 003	0815	100% DO	99.6%	Y		CK

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME SGI @ Paco Pumps - Oakland, CA				PROJECT NUMBER 161102-Ck1			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
myron L Ultrameter II	6219985	11/02/16 @ 1000	7.0 10.0 4.0 pH	7.00 10.00 3.98	yes	18.8°C	GR
			3900 us cond	3894	yes	19.1°C	GR
			238.5 @ 19.6°C ORP ✓	238.6	yes	19.6°C	GR
YSI 550	BT5001	@ 1015	100% D.O.	100.2%	yes	16.5°C	GR

APPENDIX B

LABORATORY ANALYTICAL DATA

e-Hardcopy 2.0
Automated Report

Technical Report for

The Source Group - Pleasant Hill

T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

SGS Accutest Job Number: FA38438

Sampling Date: 11/02/16

Report to:

The Source Group
3478 Buskirk Ave Suite 100
Pleasant Hill, CA 94523
pparmentier@thesourcegroup.net; pjorgensen@thesourcegroup.net

ATTN: Paul Parmentier

Total number of pages in report: **127**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Renea Lewis 407-425-6700

Certifications: FL(E83510), LA(03051), KS(E-10327), IL(200063), NC(573), NJ(FL002), NY(12022), SC(96038001) DoD ELAP(L-A-B L2229), AZ(AZ0806), CA(2937), TX(T104704404), PA(68-03573), VA(460177), AK, AR, GA, IA, KY, MA, NV, OK, OR, UT, WA

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Sample Summary

The Source Group - Pleasant Hill

Job No: FA38438

T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA38438-1	11/02/16	08:00	CKGR	11/03/16	AQ	Trip Blank Water	TB-1
FA38438-2	11/02/16	10:40	CKGR	11/03/16	AQ	Ground Water	MW-1
FA38438-2A	11/02/16	10:40	CKGR	11/03/16	AQ	Ground Water	MW-1
FA38438-3	11/02/16	11:05	CKGR	11/03/16	AQ	Ground Water	MW-5
FA38438-3A	11/02/16	11:05	CKGR	11/03/16	AQ	Ground Water	MW-5
FA38438-4	11/02/16	13:05	CKGR	11/03/16	AQ	Ground Water	MW-6
FA38438-4A	11/02/16	13:05	CKGR	11/03/16	AQ	Ground Water	MW-6
FA38438-5	11/02/16	10:05	CKGR	11/03/16	AQ	Ground Water	MW-7
FA38438-5A	11/02/16	10:05	CKGR	11/03/16	AQ	Ground Water	MW-7
FA38438-6	11/02/16	12:50	CKGR	11/03/16	AQ	Ground Water	MW-9
FA38438-6A	11/02/16	12:50	CKGR	11/03/16	AQ	Ground Water	MW-9
FA38438-7	11/02/16	12:15	CKGR	11/03/16	AQ	Ground Water	MW-10
FA38438-7A	11/02/16	12:15	CKGR	11/03/16	AQ	Ground Water	MW-10

Sample Summary
(continued)

The Source Group - Pleasant Hill

Job No: FA38438

T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA38438-8	11/02/16	11:45	CKGR	11/03/16	AQ	Ground Water	MW-11
FA38438-8A	11/02/16	11:45	CKGR	11/03/16	AQ	Ground Water	MW-11
FA38438-9	11/02/16	13:15	CKGR	11/03/16	AQ	Ground Water	MW-12
FA38438-9A	11/02/16	13:15	CKGR	11/03/16	AQ	Ground Water	MW-12
FA38438-10	11/02/16	10:30	CKGR	11/03/16	AQ	Ground Water	E-5
FA38438-10A	11/02/16	10:30	CKGR	11/03/16	AQ	Ground Water	E-5
FA38438-11	11/02/16	10:35	CKGR	11/03/16	AQ	Ground Water	DUP-1
FA38438-11A	11/02/16	10:35	CKGR	11/03/16	AQ	Ground Water	DUP-1
FA38438-12	11/02/16	11:17	CKGR	11/03/16	AQ	Ground Water	E-6
FA38438-12A	11/02/16	11:17	CKGR	11/03/16	AQ	Ground Water	E-6
FA38438-13	11/02/16	11:50	CKGR	11/03/16	AQ	Ground Water	E-7
FA38438-13A	11/02/16	11:50	CKGR	11/03/16	AQ	Ground Water	E-7
FA38438-14	11/02/16	12:40	CKGR	11/03/16	AQ	Ground Water	E-9

Sample Summary
(continued)

The Source Group - Pleasant Hill

Job No: FA38438

T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA38438-14A	11/02/16	12:40	CKGR	11/03/16	AQ	Ground Water	E-9
FA38438-15	11/02/16	14:20	CKGR	11/03/16	AQ	Ground Water	AS-1D
FA38438-15A	11/02/16	14:20	CKGR	11/03/16	AQ	Ground Water	AS-1D
FA38438-16	11/02/16	10:50	CKGR	11/03/16	AQ	Ground Water	E-2
FA38438-16A	11/02/16	10:50	CKGR	11/03/16	AQ	Ground Water	E-2

Summary of Hits

Job Number: FA38438
Account: The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA
Collected: 11/02/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA38438-1	**TB-1**					
No hits reported in this sample.						
FA38438-2	**MW-1**					
TPH (C10-C28)		0.492	0.047	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.214	0.047	0.019	mg/l	SW846 8015C
FA38438-2A	**MW-1**					
TPH (C10-C28)		0.169	0.047	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.133	0.047	0.019	mg/l	SW846 8015C
FA38438-3	**MW-5**					
TPH (C10-C28)		1.04	0.047	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.482	0.047	0.019	mg/l	SW846 8015C
FA38438-3A	**MW-5**					
TPH (C10-C28)		1.15	0.047	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.508	0.047	0.019	mg/l	SW846 8015C
FA38438-4	**MW-6**					
Benzene		1880	20	4.1	ug/l	SW846 8260B
n-Butylbenzene		12.1 J	20	8.7	ug/l	SW846 8260B
sec-Butylbenzene		7.0 J	20	5.1	ug/l	SW846 8260B
tert-Butylbenzene		11.6 J	20	8.0	ug/l	SW846 8260B
Ethylbenzene		76.5	20	5.0	ug/l	SW846 8260B
Isopropylbenzene		17.4 J	20	6.6	ug/l	SW846 8260B
n-Propylbenzene		49.9	20	4.0	ug/l	SW846 8260B
Toluene		44.0	20	4.0	ug/l	SW846 8260B
Xylene (total)		39.6 J	60	11	ug/l	SW846 8260B
TPH-GRO (C6-C10)		6.16	2.0	1.0	mg/l	SW846 8015C
TPH (C10-C28)		1.27	0.049	0.020	mg/l	SW846 8015C
TPH (> C28-C40)		0.0516	0.049	0.020	mg/l	SW846 8015C
FA38438-4A	**MW-6**					
TPH (C10-C28)		0.791	0.048	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.0876	0.048	0.019	mg/l	SW846 8015C

Summary of Hits

Job Number: FA38438
Account: The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA
Collected: 11/02/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA38438-5	**MW-7**					
TPH (C10-C28)		0.307	0.048	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.0803	0.048	0.019	mg/l	SW846 8015C
FA38438-5A	**MW-7**					
TPH (C10-C28)		0.126	0.048	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.0861	0.048	0.019	mg/l	SW846 8015C
FA38438-6	**MW-9**					
1,2-Dichloroethane		0.59 J	1.0	0.28	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.58 J	1.0	0.20	ug/l	SW846 8260B
TPH (C10-C28)		0.163	0.048	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.0749	0.048	0.019	mg/l	SW846 8015C
FA38438-6A	**MW-9**					
TPH (C10-C28)		0.152	0.048	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.123	0.048	0.019	mg/l	SW846 8015C
FA38438-7	**MW-10**					
TPH (C10-C28)		0.461	0.049	0.020	mg/l	SW846 8015C
TPH (> C28-C40)		0.250	0.049	0.020	mg/l	SW846 8015C
FA38438-7A	**MW-10**					
TPH (C10-C28)		0.594	0.049	0.020	mg/l	SW846 8015C
TPH (> C28-C40)		0.346	0.049	0.020	mg/l	SW846 8015C
FA38438-8	**MW-11**					
TPH (C10-C28)		1.37	0.047	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.630	0.047	0.019	mg/l	SW846 8015C
FA38438-8A	**MW-11**					
TPH (C10-C28)		1.40	0.049	0.020	mg/l	SW846 8015C
TPH (> C28-C40)		0.530	0.049	0.020	mg/l	SW846 8015C
FA38438-9	**MW-12**					
TPH (C10-C28)		0.165	0.047	0.019	mg/l	SW846 8015C

Summary of Hits

Job Number: FA38438
Account: The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA
Collected: 11/02/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
TPH (> C28-C40)		0.138	0.047	0.019	mg/l	SW846 8015C
FA38438-9A	**MW-12**					
TPH (C10-C28)		0.285	0.050	0.020	mg/l	SW846 8015C
TPH (> C28-C40)		0.235	0.050	0.020	mg/l	SW846 8015C
FA38438-10	**E-5**					
TPH (C10-C28)		2.43	0.19	0.077	mg/l	SW846 8015C
TPH (> C28-C40)		1.56	0.19	0.077	mg/l	SW846 8015C
FA38438-10A	**E-5**					
TPH (C10-C28)		2.77	0.20	0.079	mg/l	SW846 8015C
TPH (> C28-C40)		2.99	0.20	0.079	mg/l	SW846 8015C
FA38438-11	**DUP-1**					
TPH (C10-C28)		1.98	0.20	0.078	mg/l	SW846 8015C
TPH (> C28-C40)		1.15	0.20	0.078	mg/l	SW846 8015C
FA38438-11A	**DUP-1**					
TPH (C10-C28)		4.81	0.20	0.079	mg/l	SW846 8015C
TPH (> C28-C40)		6.22	0.20	0.079	mg/l	SW846 8015C
FA38438-12	**E-6**					
tert-Butylbenzene		1.9	1.0	0.40	ug/l	SW846 8260B
Methyl Tert Butyl Ether		0.20 J	1.0	0.20	ug/l	SW846 8260B
TPH-GRO (C6-C10)		0.147	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C28)		0.557	0.047	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.208	0.047	0.019	mg/l	SW846 8015C
FA38438-12A	**E-6**					
TPH (C10-C28)		0.733	0.049	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.381	0.049	0.019	mg/l	SW846 8015C
FA38438-13	**E-7**					
Benzene		132	2.5	0.51	ug/l	SW846 8260B
tert-Butylbenzene		1.2 J	2.5	1.0	ug/l	SW846 8260B
1,2-Dichloroethane		1.1 J	2.5	0.71	ug/l	SW846 8260B

Summary of Hits

Job Number: FA38438
Account: The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA
Collected: 11/02/16

Lab Sample ID / Client Sample ID / Analyte	Result/ Qual	RL	MDL	Units	Method
Ethylbenzene	10.6	2.5	0.63	ug/l	SW846 8260B
Isopropylbenzene	1.8 J	2.5	0.82	ug/l	SW846 8260B
Methyl Tert Butyl Ether	0.86 J	2.5	0.50	ug/l	SW846 8260B
Naphthalene	2.7 J	13	2.5	ug/l	SW846 8260B
n-Propylbenzene	3.1	2.5	0.50	ug/l	SW846 8260B
Toluene	6.9	2.5	0.50	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	6.9	2.5	0.50	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	2.3 J	2.5	0.50	ug/l	SW846 8260B
Xylene (total)	21.0	7.5	1.4	ug/l	SW846 8260B
TPH-GRO (C6-C10)	0.920	0.10	0.050	mg/l	SW846 8015C
TPH (C10-C28)	4.58	0.24	0.095	mg/l	SW846 8015C
TPH (> C28-C40)	4.09	0.24	0.095	mg/l	SW846 8015C
FA38438-13A E-7					
TPH (C10-C28)	0.581	0.048	0.019	mg/l	SW846 8015C
TPH (> C28-C40)	0.351	0.048	0.019	mg/l	SW846 8015C
FA38438-14 E-9					
Benzene	1570	20	4.1	ug/l	SW846 8260B
n-Butylbenzene	10.5 J	20	8.7	ug/l	SW846 8260B
sec-Butylbenzene	5.9 J	20	5.1	ug/l	SW846 8260B
tert-Butylbenzene	9.0 J	20	8.0	ug/l	SW846 8260B
Ethylbenzene	322	20	5.0	ug/l	SW846 8260B
Isopropylbenzene	30.7	20	6.6	ug/l	SW846 8260B
Naphthalene	171	100	20	ug/l	SW846 8260B
n-Propylbenzene	77.7	20	4.0	ug/l	SW846 8260B
Toluene	143	20	4.0	ug/l	SW846 8260B
1,2,4-Trimethylbenzene	336	20	4.0	ug/l	SW846 8260B
1,3,5-Trimethylbenzene	109	20	4.0	ug/l	SW846 8260B
Xylene (total)	508	60	11	ug/l	SW846 8260B
TPH-GRO (C6-C10)	13.3	2.0	1.0	mg/l	SW846 8015C
TPH (C10-C28)	15.2	0.24	0.095	mg/l	SW846 8015C
TPH (> C28-C40)	0.555	0.24	0.095	mg/l	SW846 8015C
FA38438-14A E-9					
TPH (C10-C28)	40.7	0.95	0.38	mg/l	SW846 8015C
TPH (> C28-C40)	0.860 J	0.95	0.38	mg/l	SW846 8015C
FA38438-15 AS-1D					
TPH (C10-C28)	1.46	0.19	0.075	mg/l	SW846 8015C
TPH (> C28-C40)	1.44	0.19	0.075	mg/l	SW846 8015C

Summary of Hits

Job Number: FA38438
Account: The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA
Collected: 11/02/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA38438-15A	**AS-1D**					
TPH (C10-C28)		0.915	0.19	0.075	mg/l	SW846 8015C
TPH (> C28-C40)		1.20	0.19	0.075	mg/l	SW846 8015C
FA38438-16A	**E-2**					
TPH (C10-C28)		1.26	0.048	0.019	mg/l	SW846 8015C
TPH (> C28-C40)		0.931	0.048	0.019	mg/l	SW846 8015C

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	TB-1		
Lab Sample ID:	FA38438-1	**Date Sampled:**	11/02/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00675.D	1	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-1		
Lab Sample ID:	FA38438-1	**Date Sampled:**	11/02/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB-1		
Lab Sample ID:	FA38438-1	**Date Sampled:**	11/02/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	FA38438-2	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003632.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.492	0.047	0.019	mg/l	
	TPH (> C28-C40)	0.214	0.047	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	127%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	FA38438-2A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6938.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.169	0.047	0.019	mg/l	
	TPH (> C28-C40)	0.133	0.047	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	91%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA38438-3	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003633.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1.04	0.047	0.019	mg/l	
	TPH (> C28-C40)	0.482	0.047	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	117%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	FA38438-3A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6939.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1.15	0.047	0.019	mg/l	
	TPH (> C28-C40)	0.508	0.047	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA38438-4	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00713.D	20	11/09/16	SP	n/a	n/a	V1A28
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	200	ug/l	
71-43-2	Benzene	1880	20	4.1	ug/l	
108-86-1	Bromobenzene	ND	20	8.4	ug/l	
74-97-5	Bromochloromethane	ND	20	8.5	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.8	ug/l	
75-25-2	Bromoform	ND	20	9.3	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	51	ug/l	
104-51-8	n-Butylbenzene	12.1	20	8.7	ug/l	J
135-98-8	sec-Butylbenzene	7.0	20	5.1	ug/l	J
98-06-6	tert-Butylbenzene	11.6	20	8.0	ug/l	J
56-23-5	Carbon Tetrachloride	ND	20	6.0	ug/l	
108-90-7	Chlorobenzene	ND	20	4.0	ug/l	
75-00-3	Chloroethane	ND	40	13	ug/l	
67-66-3	Chloroform	ND	20	6.0	ug/l	
95-49-8	o-Chlorotoluene	ND	20	4.9	ug/l	
106-43-4	p-Chlorotoluene	ND	20	7.1	ug/l	
124-48-1	Dibromochloromethane	ND	20	5.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	16	ug/l	
106-93-4	1,2-Dibromoethane	ND	40	6.6	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	4.7	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	7.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	5.1	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	5.7	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	4.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	6.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	6.6	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	6.9	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	6.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	5.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	5.8	ug/l	

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA38438-4	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	20	5.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	4.9	ug/l	
108-20-3	Di-Isopropyl Ether	ND	20	4.5	ug/l	
100-41-4	Ethylbenzene	76.5	20	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	40	4.4	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	11	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
98-82-8	Isopropylbenzene	17.4	20	6.6	ug/l	J
99-87-6	p-Isopropyltoluene	ND	20	5.6	ug/l	
74-83-9	Methyl Bromide	ND	40	10	ug/l	
74-87-3	Methyl Chloride	ND	40	10	ug/l	
74-95-3	Methylene Bromide	ND	40	7.1	ug/l	
75-09-2	Methylene Chloride	ND	100	40	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	28	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	4.0	ug/l	
91-20-3	Naphthalene	ND	100	20	ug/l	
103-65-1	n-Propylbenzene	49.9	20	4.0	ug/l	
100-42-5	Styrene	ND	20	4.8	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	40	4.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	400	180	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	5.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.5	ug/l	
127-18-4	Tetrachloroethylene	ND	20	6.1	ug/l	
108-88-3	Toluene	44.0	20	4.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	40	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	40	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	4.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	7.3	ug/l	
79-01-6	Trichloroethylene	ND	20	5.4	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	20	4.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	20	4.0	ug/l	
75-01-4	Vinyl Chloride	ND	20	6.3	ug/l	
1330-20-7	Xylene (total)	39.6	60	11	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		79-125%

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA38438-4	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA38438-4	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140894.D	20	11/08/16	EG	n/a	n/a	GCD5870
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	6.16	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	107%		70-131%
98-08-8	aaa-Trifluorotoluene	105%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA38438-4	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003634.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1.27	0.049	0.020	mg/l	
	TPH (> C28-C40)	0.0516	0.049	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	107%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-6		
Lab Sample ID:	FA38438-4A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6956.D	1	11/11/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.791	0.048	0.019	mg/l	
	TPH (> C28-C40)	0.0876	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	FA38438-5	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003635.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.307	0.048	0.019	mg/l	
	TPH (> C28-C40)	0.0803	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	113%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	FA38438-5A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6941.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.126	0.048	0.019	mg/l	
	TPH (> C28-C40)	0.0861	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	94%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-9
Lab Sample ID: FA38438-6
Matrix: AQ - Ground Water
Method: SW846 8260B
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Date Sampled: 11/02/16
Date Received: 11/03/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00677.D	1	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	0.59	1.0	0.28	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FA38438-6	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.58	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FA38438-6	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FA38438-6	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140871.D	1	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	87%		70-131%
98-08-8	aaa-Trifluorotoluene	72%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FA38438-6	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003636.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.163	0.048	0.019	mg/l	
	TPH (> C28-C40)	0.0749	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	118%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	FA38438-6A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6942.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.152	0.048	0.019	mg/l	
	TPH (> C28-C40)	0.123	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA38438-7	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00678.D	1	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA38438-7	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA38438-7	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA38438-7	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140872.D	1	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	101%		70-131%
98-08-8	aaa-Trifluorotoluene	85%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	FA38438-7	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003637.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.461	0.049	0.020	mg/l	
	TPH (> C28-C40)	0.250	0.049	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	113%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-10
Lab Sample ID: FA38438-7A
Matrix: AQ - Ground Water
Method: SW846 8015C SW846 3510C
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Date Sampled: 11/02/16
Date Received: 11/03/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6943.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.594	0.049	0.020	mg/l	
	TPH (> C28-C40)	0.346	0.049	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA38438-8	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00679.D	1	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA38438-8	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA38438-8	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	93%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA38438-8	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140873.D	1	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	103%		70-131%
98-08-8	aaa-Trifluorotoluene	87%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA38438-8	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003638.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1.37	0.047	0.019	mg/l	
	TPH (> C28-C40)	0.630	0.047	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	118%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	FA38438-8A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6944.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1.40	0.049	0.020	mg/l	
	TPH (> C28-C40)	0.530	0.049	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA38438-9	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00680.D	1	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA38438-9	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA38438-9	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	99%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA38438-9	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140874.D	1	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	97%		70-131%
98-08-8	aaa-Trifluorotoluene	82%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA38438-9	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003639.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.165	0.047	0.019	mg/l	
	TPH (> C28-C40)	0.138	0.047	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	124%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-12		
Lab Sample ID:	FA38438-9A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6945.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.285	0.050	0.020	mg/l	
	TPH (> C28-C40)	0.235	0.050	0.020	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	93%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-5		
Lab Sample ID:	FA38438-10	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00681.D	1	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-5		
Lab Sample ID:	FA38438-10	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-5		
Lab Sample ID:	FA38438-10	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	94%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-5		
Lab Sample ID:	FA38438-10	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140879.D	1	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	81%		70-131%
98-08-8	aaa-Trifluorotoluene	69%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-5		
Lab Sample ID:	FA38438-10	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003640.D	4	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	2.43	0.19	0.077	mg/l	
	TPH (> C28-C40)	1.56	0.19	0.077	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-5		
Lab Sample ID:	FA38438-10A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6950.D	4	11/10/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	2.77	0.20	0.079	mg/l	
	TPH (> C28-C40)	2.99	0.20	0.079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	98%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA38438-11	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00682.D	1	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA38438-11	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA38438-11	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA38438-11	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140875.D	1	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%		70-131%
98-08-8	aaa-Trifluorotoluene	86%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA38438-11	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003645.D	4	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1020 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1.98	0.20	0.078	mg/l	
	TPH (> C28-C40)	1.15	0.20	0.078	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	113%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP-1		
Lab Sample ID:	FA38438-11A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6951.D	4	11/11/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.81	0.20	0.079	mg/l	
	TPH (> C28-C40)	6.22	0.20	0.079	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	85%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-6		
Lab Sample ID:	FA38438-12	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00683.D	1	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	1.9	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-6		
Lab Sample ID:	FA38438-12	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.20	1.0	0.20	ug/l	J
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-6		
Lab Sample ID:	FA38438-12	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	97%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-6		
Lab Sample ID:	FA38438-12	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140876.D	1	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.147	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		70-131%
98-08-8	aaa-Trifluorotoluene	100%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-6		
Lab Sample ID:	FA38438-12	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003646.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.557	0.047	0.019	mg/l	
	TPH (> C28-C40)	0.208	0.047	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	119%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-6		
Lab Sample ID:	FA38438-12A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6952.D	1	11/11/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1030 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.733	0.049	0.019	mg/l	
	TPH (> C28-C40)	0.381	0.049	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	96%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-7		
Lab Sample ID:	FA38438-13	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00684.D	2.5	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	63	25	ug/l	
71-43-2	Benzene	132	2.5	0.51	ug/l	
108-86-1	Bromobenzene	ND	2.5	1.1	ug/l	
74-97-5	Bromochloromethane	ND	2.5	1.1	ug/l	
75-27-4	Bromodichloromethane	ND	2.5	0.60	ug/l	
75-25-2	Bromoform	ND	2.5	1.2	ug/l	
78-93-3	2-Butanone (MEK)	ND	13	6.4	ug/l	
104-51-8	n-Butylbenzene	ND	2.5	1.1	ug/l	
135-98-8	sec-Butylbenzene	ND	2.5	0.63	ug/l	
98-06-6	tert-Butylbenzene	1.2	2.5	1.0	ug/l	J
56-23-5	Carbon Tetrachloride	ND	2.5	0.75	ug/l	
108-90-7	Chlorobenzene	ND	2.5	0.50	ug/l	
75-00-3	Chloroethane	ND	5.0	1.6	ug/l	
67-66-3	Chloroform	ND	2.5	0.75	ug/l	
95-49-8	o-Chlorotoluene	ND	2.5	0.61	ug/l	
106-43-4	p-Chlorotoluene	ND	2.5	0.89	ug/l	
124-48-1	Dibromochloromethane	ND	2.5	0.65	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	5.0	0.83	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	1.3	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.5	0.67	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.5	0.59	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.5	0.98	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.5	0.64	ug/l	
107-06-2	1,2-Dichloroethane	1.1	2.5	0.71	ug/l	J
75-35-4	1,1-Dichloroethylene	ND	2.5	0.54	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	2.5	0.78	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	2.5	0.83	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.5	0.86	ug/l	
142-28-9	1,3-Dichloropropane	ND	2.5	0.79	ug/l	
594-20-7	2,2-Dichloropropane	ND	2.5	0.68	ug/l	
563-58-6	1,1-Dichloropropene	ND	2.5	0.73	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-7		
Lab Sample ID:	FA38438-13	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	2.5	0.66	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.5	0.62	ug/l	
108-20-3	Di-Isopropyl Ether	ND	2.5	0.57	ug/l	
100-41-4	Ethylbenzene	10.6	2.5	0.63	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	0.55	ug/l	
87-68-3	Hexachlorobutadiene	ND	5.0	1.4	ug/l	
591-78-6	2-Hexanone	ND	25	5.0	ug/l	
98-82-8	Isopropylbenzene	1.8	2.5	0.82	ug/l	J
99-87-6	p-Isopropyltoluene	ND	2.5	0.70	ug/l	
74-83-9	Methyl Bromide	ND	5.0	1.3	ug/l	
74-87-3	Methyl Chloride	ND	5.0	1.3	ug/l	
74-95-3	Methylene Bromide	ND	5.0	0.89	ug/l	
75-09-2	Methylene Chloride	ND	13	5.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	13	3.5	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.86	2.5	0.50	ug/l	J
91-20-3	Naphthalene	2.7	13	2.5	ug/l	J
103-65-1	n-Propylbenzene	3.1	2.5	0.50	ug/l	
100-42-5	Styrene	ND	2.5	0.60	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	0.50	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	50	23	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	2.5	0.71	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.5	0.82	ug/l	
127-18-4	Tetrachloroethylene	ND	2.5	0.76	ug/l	
108-88-3	Toluene	6.9	2.5	0.50	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	1.3	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.3	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.5	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.5	0.92	ug/l	
79-01-6	Trichloroethylene	ND	2.5	0.68	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	1.3	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	5.0	1.6	ug/l	
95-63-6	1,2,4-Trimethylbenzene	6.9	2.5	0.50	ug/l	
108-67-8	1,3,5-Trimethylbenzene	2.3	2.5	0.50	ug/l	J
75-01-4	Vinyl Chloride	ND	2.5	0.79	ug/l	
1330-20-7	Xylene (total)	21.0	7.5	1.4	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-7		
Lab Sample ID:	FA38438-13	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-7		
Lab Sample ID:	FA38438-13	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140877.D	1	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	0.920	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	109%		70-131%
98-08-8	aaa-Trifluorotoluene	111%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-7		
Lab Sample ID:	FA38438-13	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003647.D	5	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	4.58	0.24	0.095	mg/l	
	TPH (> C28-C40)	4.09	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	105%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-7		
Lab Sample ID:	FA38438-13A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6976.D	1	11/11/16	SJL	11/07/16	OP62574	GWW316
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.581	0.048	0.019	mg/l	
	TPH (> C28-C40)	0.351	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	100%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-9		
Lab Sample ID:	FA38438-14	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00685.D	20	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	500	200	ug/l	
71-43-2	Benzene	1570	20	4.1	ug/l	
108-86-1	Bromobenzene	ND	20	8.4	ug/l	
74-97-5	Bromochloromethane	ND	20	8.5	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.8	ug/l	
75-25-2	Bromoform	ND	20	9.3	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	51	ug/l	
104-51-8	n-Butylbenzene	10.5	20	8.7	ug/l	J
135-98-8	sec-Butylbenzene	5.9	20	5.1	ug/l	J
98-06-6	tert-Butylbenzene	9.0	20	8.0	ug/l	J
56-23-5	Carbon Tetrachloride	ND	20	6.0	ug/l	
108-90-7	Chlorobenzene	ND	20	4.0	ug/l	
75-00-3	Chloroethane	ND	40	13	ug/l	
67-66-3	Chloroform	ND	20	6.0	ug/l	
95-49-8	o-Chlorotoluene	ND	20	4.9	ug/l	
106-43-4	p-Chlorotoluene	ND	20	7.1	ug/l	
124-48-1	Dibromochloromethane	ND	20	5.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	16	ug/l	
106-93-4	1,2-Dibromoethane	ND	40	6.6	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	4.7	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	7.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	5.1	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	5.7	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	4.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	6.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	6.6	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	6.9	ug/l	
142-28-9	1,3-Dichloropropane	ND	20	6.3	ug/l	
594-20-7	2,2-Dichloropropane	ND	20	5.5	ug/l	
563-58-6	1,1-Dichloropropene	ND	20	5.8	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-9		
Lab Sample ID:	FA38438-14	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	20	5.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	4.9	ug/l	
108-20-3	Di-Isopropyl Ether	ND	20	4.5	ug/l	
100-41-4	Ethylbenzene	322	20	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	40	4.4	ug/l	
87-68-3	Hexachlorobutadiene	ND	40	11	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
98-82-8	Isopropylbenzene	30.7	20	6.6	ug/l	
99-87-6	p-Isopropyltoluene	ND	20	5.6	ug/l	
74-83-9	Methyl Bromide	ND	40	10	ug/l	
74-87-3	Methyl Chloride	ND	40	10	ug/l	
74-95-3	Methylene Bromide	ND	40	7.1	ug/l	
75-09-2	Methylene Chloride	ND	100	40	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	28	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	4.0	ug/l	
91-20-3	Naphthalene	171	100	20	ug/l	
103-65-1	n-Propylbenzene	77.7	20	4.0	ug/l	
100-42-5	Styrene	ND	20	4.8	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	40	4.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	400	180	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	20	5.7	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.5	ug/l	
127-18-4	Tetrachloroethylene	ND	20	6.1	ug/l	
108-88-3	Toluene	143	20	4.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	40	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	40	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	4.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	7.3	ug/l	
79-01-6	Trichloroethylene	ND	20	5.4	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	10	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	40	13	ug/l	
95-63-6	1,2,4-Trimethylbenzene	336	20	4.0	ug/l	
108-67-8	1,3,5-Trimethylbenzene	109	20	4.0	ug/l	
75-01-4	Vinyl Chloride	ND	20	6.3	ug/l	
1330-20-7	Xylene (total)	508	60	11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-9		
Lab Sample ID:	FA38438-14	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	95%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-9		
Lab Sample ID:	FA38438-14	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140885.D	20	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	13.3	2.0	1.0	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	110%		70-131%
98-08-8	aaa-Trifluorotoluene	126%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-9		
Lab Sample ID:	FA38438-14	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003648.D	5	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	15.2	0.24	0.095	mg/l	
	TPH (> C28-C40)	0.555	0.24	0.095	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	123%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-9		
Lab Sample ID:	FA38438-14A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6977.D	20	11/11/16	SJL	11/07/16	OP62574	GWW316
Run #2							

	Initial Volume	Final Volume
Run #1	1050 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	40.7	0.95	0.38	mg/l	
	TPH (> C28-C40)	0.860	0.95	0.38	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% [a]		50-131%

(a) Outside control limits due to dilution.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	FA38438-15	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1A00686.D	1	11/08/16	AJ	n/a	n/a	V1A27
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	FA38438-15	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	108%		79-125%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	FA38438-15	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

VOA 8260 List

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	95%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	FA38438-15	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CD140878.D	1	11/07/16	EG	n/a	n/a	GCD5869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	105%		70-131%
98-08-8	aaa-Trifluorotoluene	87%		69-143%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	FA38438-15	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003649.D	4	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1.46	0.19	0.075	mg/l	
	TPH (> C28-C40)	1.44	0.19	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	107%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	AS-1D		
Lab Sample ID:	FA38438-15A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	WW6955.D	4	11/11/16	SJL	11/07/16	OP62574	GWW315
Run #2							

	Initial Volume	Final Volume
Run #1	1060 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	0.915	0.19	0.075	mg/l	
	TPH (> C28-C40)	1.20	0.19	0.075	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	90%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	E-2		
Lab Sample ID:	FA38438-16A	**Date Sampled:**	11/02/16
Matrix:	AQ - Ground Water	**Date Received:**	11/03/16
Method:	SW846 8015C SW846 3510C	**Percent Solids:**	n/a
Project:	T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JR003650.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140
Run #2							

	Initial Volume	Final Volume
Run #1	1040 ml	1.0 ml
Run #2		

TPH Extractable

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	1.26	0.048	0.019	mg/l	
	TPH (> C28-C40)	0.931	0.048	0.019	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	106%		50-131%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Certification Exceptions
- Chain of Custody

Parameter Certification Exceptions

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

The following parameters included in this report are exceptions to NELAC certification.
The certification status of each is indicated below.

Parameter	CAS#	Method	Mat	Certification Status
Di-Isopropyl Ether	108-20-3	**SW846 8260B**	AQ	Certified by SOP MS005

BLAINE TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 161102-CW1

CLIENT: The Source Group

SITE: Paco Pumps
9201 San Leandro St.
Oakland, CA

LAB: ACCUTEST PM30730

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
☐ EPA ☐ LIA ☐ OTHER ☐ RWQCB REGION

SPECIAL INSTRUCTIONS

Invoice and Report to : The Source Group

Attn: Paisha Jorgensen pjorgensen@thesourcegroup.net
(562)597-1055 ext106
PO #: 04-PFT-001
Geotracker EDD files required

CONDUCT ANALYSIS TO DETECT

	SAMPLE I.D.	DATE	TIME	MATRIX S=SOIL W=H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH-g, 5 Oxys (8260B)	VOC's (8260B)	TPH-d / TPH-mo w/ SGC (8015M)	PCB's (8082)	TPH-d / TPH-mo w/o SGC (8015M)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	TB-1	11/2/16	0800	W	2	HCl VOAs			X			X(2)				
2	MW-1		1040	W	2	1L Ambs				X		X				
3	MW-5		1105	W	2	1L Ambs				X		X				
4	MW-6		1305	W	8	mix		X	X	X		2				
5	MW-7		1005	W	2	1L Ambs				X		X				
6	MW-9		1250	W	8	mix		X	X	X		X				
7	MW-10		1215	W	8	mix		X	X	X		X				
8	MW-11		1145	W	8	mix		X	X	X		X				
9	MW-12		1315	W	8	mix		X	X	X		X				
10	E-5	↓	1030	W	8	mix		X	X	X		X				

SAMPLING COMPLETED: DATE 11/2/16 TIME 1430
SAMPLING PERFORMED BY: COREY KLINEFELTER / GREG ROGERS

RESULTS NEEDED NO LATER THAN: Standard TAT

		DATE	TIME		DATE	TIME
RELEASED BY		11/02/16	1600	RECEIVED BY	11/2/16	1600
RELEASED BY		11/2/16	1630	RECEIVED BY	11/2/16	1630
RELEASED BY	Fx			RECEIVED BY	11-3-16	9:15

SHIPPED VIA | DATE SENT | TIME SENT | COOLER # | 2.2 2.6 3.0

CAUS'ZS1

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 161102-CW1

CLIENT: The Source Group

SITE: Paco Pumps

9201 San Leandro St.

Oakland, CA

LAB: ACCUTEST FA38438 | DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION ______
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Invoice and Report to : The Source Group

Attn: Paisha Jorgensen pjorgensen@thesourcegroup.net
(562)597-1055 ext106

PO #: 04-PFT-001

Geotracker EDD files required

CONDUCT ANALYSIS TO DETECT

	SAMPLE I.D.	DATE	TIME	MATRIX (S= SOIL W=H₂0)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	TPH-g, 5 Oxys (8260B)	VOC's (8260B)	TPH-d / TPH-mo w/ SGC (8015M)	PCB's (8082)	TPH-d / TPH-mo w/o SGC (8015M)			ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
11	DUP-1	11/2/16	1035	W	8	MIX		X	X	X		X						
12	E-6		1117	W	8	MIX		X	X	X		X						
13	E-7		1150	W	8	MIX		X	X	X		X						
14	E-9		1240	W	8	MIX		X	X	X		X						
15	AS-1D		1420	W	8	MIX		X	X	X		X						
16	E-2	↓	1055	W	2	1L AGB				X		X						

SAMPLING COMPLETED: DATE 11/2/16 TIME 1430

SAMPLING PERFORMED BY: Corey Kirkpatrick / Gabe Roberts

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	11/02/16	1600	Lee Bauer	11/2/16	1600
Lee Bauer	11/2/16	1620	FEDX	11/2/16	1630
FX			[signature]	11-3-16	9:15

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	
				2.2 2.6 3.0

4.2 4

FA38438: Chain of Custody
Page 2 of 4

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA38438 CLIENT: Blaine Inc PROJECT: Paco Pumps

DATE/TIME RECEIVED: 11-3-16 9:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 3

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 7776 2412 7838

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [X] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 2.6 3.0 3.4
- [ ] CORRECTED TEMPS: 2.2 2.6 3.0 (USED FOR LIMS)

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS: _____

TECHNICIAN SIGNATURE/DATE: [signature] 11-4-16 REVIEWER SIGNATURE/DATE: [signature] 11/4/16

FA38438: Chain of Custody
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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A27-MB	1A00666.D	1	11/08/16	AJ	n/a	n/a	V1A27

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-1, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A27-MB	1A00666.D	1	11/08/16	AJ	n/a	n/a	V1A27

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-1, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Compound	Result	RL	MDL	Units	Q
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	6.8	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A27-MB	1A00666.D	1	11/08/16	AJ	n/a	n/a	V1A27

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-1, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile [a]		0	ug/l	

(a) No TICs detected.

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A28-MB	1A00695.D	1	11/09/16	SP	n/a	n/a	V1A28

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
108-86-1	Bromobenzene	ND	1.0	0.42	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
104-51-8	n-Butylbenzene	ND	1.0	0.43	ug/l	
135-98-8	sec-Butylbenzene	ND	1.0	0.25	ug/l	
98-06-6	tert-Butylbenzene	ND	1.0	0.40	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
95-49-8	o-Chlorotoluene	ND	1.0	0.24	ug/l	
106-43-4	p-Chlorotoluene	ND	1.0	0.36	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
142-28-9	1,3-Dichloropropane	ND	1.0	0.31	ug/l	
594-20-7	2,2-Dichloropropane	ND	1.0	0.27	ug/l	
563-58-6	1,1-Dichloropropene	ND	1.0	0.29	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
108-20-3	Di-Isopropyl Ether	ND	1.0	0.23	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A28-MB	1A00695.D	1	11/09/16	SP	n/a	n/a	V1A28

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-4

CAS No.	Compound	Result	RL	MDL	Units	Q
637-92-3	Ethyl Tert Butyl Ether	ND	2.0	0.22	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.57	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
74-95-3	Methylene Bromide	ND	2.0	0.36	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
91-20-3	Naphthalene	ND	5.0	1.0	ug/l	
103-65-1	n-Propylbenzene	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	2.0	0.20	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	0.28	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	2.0	0.66	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
1330-20-7	Xylene (total)	ND	3.0	0.56	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A28-MB	1A00695.D	1	11/09/16	SP	n/a	n/a	V1A28

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-4

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	105%	79-125%
2037-26-5	Toluene-D8	95%	85-112%
460-00-4	4-Bromofluorobenzene	102%	83-118%

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A27-BS	1A00665.D	1	11/08/16	AJ	n/a	n/a	V1A27

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-1, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	119	95	50-147
71-43-2	Benzene	25	24.0	96	81-122
108-86-1	Bromobenzene	25	23.4	94	80-121
74-97-5	Bromochloromethane	25	24.1	96	76-123
75-27-4	Bromodichloromethane	25	24.5	98	79-123
75-25-2	Bromoform	25	24.6	98	66-123
78-93-3	2-Butanone (MEK)	125	114	91	56-143
104-51-8	n-Butylbenzene	25	25.0	100	79-126
135-98-8	sec-Butylbenzene	25	25.5	102	83-133
98-06-6	tert-Butylbenzene	25	24.9	100	80-133
56-23-5	Carbon Tetrachloride	25	27.3	109	76-136
108-90-7	Chlorobenzene	25	24.1	96	82-124
75-00-3	Chloroethane	25	24.4	98	62-144
67-66-3	Chloroform	25	24.0	96	80-124
95-49-8	o-Chlorotoluene	25	24.3	97	81-127
106-43-4	p-Chlorotoluene	25	24.0	96	83-130
124-48-1	Dibromochloromethane	25	24.3	97	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	23.8	95	64-123
106-93-4	1,2-Dibromoethane	25	22.7	91	75-120
75-71-8	Dichlorodifluoromethane	25	24.6	98	42-167
95-50-1	1,2-Dichlorobenzene	25	23.6	94	82-124
541-73-1	1,3-Dichlorobenzene	25	24.1	96	84-125
106-46-7	1,4-Dichlorobenzene	25	23.6	94	78-120
75-34-3	1,1-Dichloroethane	25	25.4	102	81-122
107-06-2	1,2-Dichloroethane	25	23.8	95	75-125
75-35-4	1,1-Dichloroethylene	25	26.8	107	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.6	94	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.7	111	76-127
78-87-5	1,2-Dichloropropane	25	22.9	92	76-124
142-28-9	1,3-Dichloropropane	25	21.1	84	80-118
594-20-7	2,2-Dichloropropane	25	27.2	109	74-139
563-58-6	1,1-Dichloropropene	25	25.2	101	79-131
10061-01-5	cis-1,3-Dichloropropene	25	23.2	93	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.4	102	80-120
108-20-3	Di-Isopropyl Ether	25	23.5	94	68-123
100-41-4	Ethylbenzene	25	23.0	92	81-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A27-BS	1A00665.D	1	11/08/16	AJ	n/a	n/a	V1A27

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-1, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
637-92-3	Ethyl Tert Butyl Ether	25	23.6	94	71-120
87-68-3	Hexachlorobutadiene	25	25.8	103	75-142
591-78-6	2-Hexanone	125	104	83	61-129
98-82-8	Isopropylbenzene	25	24.7	99	83-132
99-87-6	p-Isopropyltoluene	25	25.3	101	79-130
74-83-9	Methyl Bromide	25	24.0	96	59-143
74-87-3	Methyl Chloride	25	22.9	92	50-159
74-95-3	Methylene Bromide	25	24.0	96	78-119
75-09-2	Methylene Chloride	25	28.7	115	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	113	90	66-122
1634-04-4	Methyl Tert Butyl Ether	25	23.7	95	72-117
91-20-3	Naphthalene	25	26.0	104	63-132
103-65-1	n-Propylbenzene	25	24.9	100	82-133
100-42-5	Styrene	25	23.3	93	78-119
994-05-8	Tert-Amyl Methyl Ether	25	22.8	91	73-122
75-65-0	Tert-Butyl Alcohol	250	223	89	63-129
630-20-6	1,1,1,2-Tetrachloroethane	25	23.9	96	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	23.1	92	72-120
127-18-4	Tetrachloroethylene	25	25.2	101	76-135
108-88-3	Toluene	25	23.4	94	80-120
87-61-6	1,2,3-Trichlorobenzene	25	23.9	96	68-131
120-82-1	1,2,4-Trichlorobenzene	25	24.0	96	73-129
71-55-6	1,1,1-Trichloroethane	25	24.7	99	75-130
79-00-5	1,1,2-Trichloroethane	25	23.3	93	76-119
79-01-6	Trichloroethylene	25	25.1	100	81-126
75-69-4	Trichlorofluoromethane	25	26.2	105	71-156
96-18-4	1,2,3-Trichloropropane	25	23.5	94	77-120
95-63-6	1,2,4-Trimethylbenzene	25	23.8	95	79-120
108-67-8	1,3,5-Trimethylbenzene	25	24.1	96	79-120
75-01-4	Vinyl Chloride	25	25.1	100	69-159
1330-20-7	Xylene (total)	75	70.3	94	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A27-BS	1A00665.D	1	11/08/16	AJ	n/a	n/a	V1A27

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-1, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	99%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A28-BS	1A00694.D	1	11/09/16	SP	n/a	n/a	V1A28

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	144	115	50-147
71-43-2	Benzene	25	26.3	105	81-122
108-86-1	Bromobenzene	25	25.5	102	80-121
74-97-5	Bromochloromethane	25	26.5	106	76-123
75-27-4	Bromodichloromethane	25	26.8	107	79-123
75-25-2	Bromoform	25	26.0	104	66-123
78-93-3	2-Butanone (MEK)	125	124	99	56-143
104-51-8	n-Butylbenzene	25	27.5	110	79-126
135-98-8	sec-Butylbenzene	25	28.2	113	83-133
98-06-6	tert-Butylbenzene	25	27.5	110	80-133
56-23-5	Carbon Tetrachloride	25	30.3	121	76-136
108-90-7	Chlorobenzene	25	26.5	106	82-124
75-00-3	Chloroethane	25	26.0	104	62-144
67-66-3	Chloroform	25	26.1	104	80-124
95-49-8	o-Chlorotoluene	25	26.8	107	81-127
106-43-4	p-Chlorotoluene	25	26.2	105	83-130
124-48-1	Dibromochloromethane	25	26.3	105	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	25.3	101	64-123
106-93-4	1,2-Dibromoethane	25	25.1	100	75-120
75-71-8	Dichlorodifluoromethane	25	25.9	104	42-167
95-50-1	1,2-Dichlorobenzene	25	26.0	104	82-124
541-73-1	1,3-Dichlorobenzene	25	26.5	106	84-125
106-46-7	1,4-Dichlorobenzene	25	25.9	104	78-120
75-34-3	1,1-Dichloroethane	25	28.0	112	81-122
107-06-2	1,2-Dichloroethane	25	26.4	106	75-125
75-35-4	1,1-Dichloroethylene	25	29.4	118	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.6	102	78-120
156-60-5	trans-1,2-Dichloroethylene	25	30.3	121	76-127
78-87-5	1,2-Dichloropropane	25	24.9	100	76-124
142-28-9	1,3-Dichloropropane	25	23.0	92	80-118
594-20-7	2,2-Dichloropropane	25	29.6	118	74-139
563-58-6	1,1-Dichloropropene	25	27.8	111	79-131
10061-01-5	cis-1,3-Dichloropropene	25	25.1	100	75-118
10061-02-6	trans-1,3-Dichloropropene	25	27.2	109	80-120
108-20-3	Di-Isopropyl Ether	25	25.3	101	68-123
100-41-4	Ethylbenzene	25	25.3	101	81-121

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A28-BS	1A00694.D	1	11/09/16	SP	n/a	n/a	V1A28

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
637-92-3	Ethyl Tert Butyl Ether	25	25.6	102	71-120
87-68-3	Hexachlorobutadiene	25	28.1	112	75-142
591-78-6	2-Hexanone	125	121	97	61-129
98-82-8	Isopropylbenzene	25	27.4	110	83-132
99-87-6	p-Isopropyltoluene	25	27.9	112	79-130
74-83-9	Methyl Bromide	25	24.8	99	59-143
74-87-3	Methyl Chloride	25	24.3	97	50-159
74-95-3	Methylene Bromide	25	26.1	104	78-119
75-09-2	Methylene Chloride	25	24.7	99	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	120	96	66-122
1634-04-4	Methyl Tert Butyl Ether	25	25.9	104	72-117
91-20-3	Naphthalene	25	27.9	112	63-132
103-65-1	n-Propylbenzene	25	27.4	110	82-133
100-42-5	Styrene	25	25.5	102	78-119
994-05-8	Tert-Amyl Methyl Ether	25	25.1	100	73-122
75-65-0	Tert-Butyl Alcohol	250	240	96	63-129
630-20-6	1,1,1,2-Tetrachloroethane	25	26.2	105	77-122
79-34-5	1,1,2,2-Tetrachloroethane	25	25.1	100	72-120
127-18-4	Tetrachloroethylene	25	28.2	113	76-135
108-88-3	Toluene	25	25.6	102	80-120
87-61-6	1,2,3-Trichlorobenzene	25	26.3	105	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.2	105	73-129
71-55-6	1,1,1-Trichloroethane	25	27.5	110	75-130
79-00-5	1,1,2-Trichloroethane	25	25.7	103	76-119
79-01-6	Trichloroethylene	25	27.8	111	81-126
75-69-4	Trichlorofluoromethane	25	27.8	111	71-156
96-18-4	1,2,3-Trichloropropane	25	25.8	103	77-120
95-63-6	1,2,4-Trimethylbenzene	25	26.4	106	79-120
108-67-8	1,3,5-Trimethylbenzene	25	26.5	106	79-120
75-01-4	Vinyl Chloride	25	26.0	104	69-159
1330-20-7	Xylene (total)	75	77.6	103	80-126

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	104%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1A28-BS	1A00694.D	1	11/09/16	SP	n/a	n/a	V1A28

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-4

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	105%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA38442-1MS	1A00688.D	500	11/08/16	AJ	n/a	n/a	V1A27
FA38442-1MSD	1A00689.D	500	11/08/16	AJ	n/a	n/a	V1A27
FA38442-1	1A00673.D	100	11/08/16	AJ	n/a	n/a	V1A27

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-1, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Compound	FA38442-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		62500	58300	93	62500	57500	92	1	50-147/21
71-43-2	Benzene	ND		12500	12800	102	12500	13000	104	2	81-122/14
108-86-1	Bromobenzene	ND		12500	12200	98	12500	12600	101	3	80-121/14
74-97-5	Bromochloromethane	ND		12500	12900	103	12500	13000	104	1	76-123/14
75-27-4	Bromodichloromethane	ND		12500	12900	103	12500	13300	106	3	79-123/19
75-25-2	Bromoform	ND		12500	11300	90	12500	11800	94	4	66-123/21
78-93-3	2-Butanone (MEK)	ND		62500	61500	98	62500	60500	97	2	56-143/18
104-51-8	n-Butylbenzene	ND		12500	12700	102	12500	12800	102	1	79-126/16
135-98-8	sec-Butylbenzene	ND		12500	13200	106	12500	13200	106	0	83-133/16
98-06-6	tert-Butylbenzene	ND		12500	12900	103	12500	13000	104	1	80-133/16
56-23-5	Carbon Tetrachloride	ND		12500	14400	115	12500	14800	118	3	76-136/23
108-90-7	Chlorobenzene	ND		12500	12800	102	12500	13000	104	2	82-124/14
75-00-3	Chloroethane	ND		12500	12900	103	12500	13200	106	2	62-144/20
67-66-3	Chloroform	ND		12500	13000	104	12500	13100	105	1	80-124/15
95-49-8	o-Chlorotoluene	ND		12500	12700	102	12500	12900	103	2	81-127/15
106-43-4	p-Chlorotoluene	ND		12500	12600	101	12500	12700	102	1	83-130/15
124-48-1	Dibromochloromethane	ND		12500	12000	96	12500	12300	98	2	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		12500	11300	90	12500	11400	91	1	64-123/18
106-93-4	1,2-Dibromoethane	ND		12500	12100	97	12500	12300	98	2	75-120/13
75-71-8	Dichlorodifluoromethane	ND		12500	13100	105	12500	13000	104	1	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		12500	12400	99	12500	12600	101	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		12500	12600	101	12500	12800	102	2	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		12500	12400	99	12500	12600	101	2	78-120/15
75-34-3	1,1-Dichloroethane	ND		12500	13600	109	12500	13700	110	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		12500	13200	106	12500	13300	106	1	75-125/14
75-35-4	1,1-Dichloroethylene	215		12500	14200	112	12500	14500	114	2	78-137/18
156-59-2	cis-1,2-Dichloroethylene	486		12500	12700	98	12500	13100	101	3	78-120/15
156-60-5	trans-1,2-Dichloroethylene	168		12500	14800	117	12500	14900	118	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		12500	12100	97	12500	12200	98	1	76-124/14
142-28-9	1,3-Dichloropropane	ND		12500	11300	90	12500	11500	92	2	80-118/13
594-20-7	2,2-Dichloropropane	ND		12500	12700	102	12500	13100	105	3	74-139/17
563-58-6	1,1-Dichloropropene	ND		12500	13400	107	12500	13800	110	3	79-131/16
10061-01-5	cis-1,3-Dichloropropene	ND		12500	11600	93	12500	12000	96	3	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		12500	12400	99	12500	12800	102	3	80-120/22
108-20-3	Di-Isopropyl Ether	ND		12500	12100	97	12500	12400	99	2	68-123/16
100-41-4	Ethylbenzene	ND		12500	12300	98	12500	12500	100	2	81-121/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA38442-1MS	1A00688.D	500	11/08/16	AJ	n/a	n/a	V1A27
FA38442-1MSD	1A00689.D	500	11/08/16	AJ	n/a	n/a	V1A27
FA38442-1	1A00673.D	100	11/08/16	AJ	n/a	n/a	V1A27

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-1, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Compound	FA38442-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
637-92-3	Ethyl Tert Butyl Ether	ND		12500	12400	99	12500	12600	101	2	71-120/14
87-68-3	Hexachlorobutadiene	ND		12500	12400	99	12500	12600	101	2	75-142/19
591-78-6	2-Hexanone	ND		62500	58600	94	62500	58100	93	1	61-129/18
98-82-8	Isopropylbenzene	ND		12500	13200	106	12500	13200	106	0	83-132/15
99-87-6	p-Isopropyltoluene	ND		12500	13000	104	12500	13200	106	2	79-130/16
74-83-9	Methyl Bromide	ND		12500	12600	101	12500	12800	102	2	59-143/19
74-87-3	Methyl Chloride	ND		12500	12000	96	12500	12200	98	2	50-159/19
74-95-3	Methylene Bromide	ND		12500	12800	102	12500	13100	105	2	78-119/14
75-09-2	Methylene Chloride	ND		12500	12500	100	12500	12700	102	2	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		62500	60700	97	62500	59700	96	2	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		12500	12500	100	12500	12800	102	2	72-117/14
91-20-3	Naphthalene	ND		12500	12700	102	12500	12900	103	2	63-132/25
103-65-1	n-Propylbenzene	ND		12500	13000	104	12500	13100	105	1	82-133/15
100-42-5	Styrene	ND		12500	12500	100	12500	12600	101	1	78-119/23
994-05-8	Tert-Amyl Methyl Ether	ND		12500	11900	95	12500	12300	98	3	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		125000	115000	92	125000	120000	96	4	63-129/27
630-20-6	1,1,1,2-Tetrachloroethane	ND		12500	12400	99	12500	12500	100	1	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		12500	12200	98	12500	12200	98	0	72-120/14
127-18-4	Tetrachloroethylene	3720		12500	16100	99	12500	16400	101	2	76-135/16
108-88-3	Toluene	ND		12500	12100	97	12500	12400	99	2	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		12500	11800	94	12500	11900	95	1	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		12500	11800	94	12500	12000	96	2	73-129/20
71-55-6	1,1,1-Trichloroethane	42.6		12500	13600	108	12500	13800	110	1	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		12500	12500	100	12500	12800	102	2	76-119/14
79-01-6	Trichloroethylene	27800	E	12500	34000	50* [a]	12500	33600	46* [a]	1	81-126/15
75-69-4	Trichlorofluoromethane	ND		12500	13800	110	12500	14100	113	2	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		12500	12500	100	12500	12700	102	2	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		12500	12400	99	12500	12500	100	1	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		12500	12500	100	12500	12600	101	1	79-120/19
75-01-4	Vinyl Chloride	ND		12500	13100	105	12500	13300	106	2	69-159/18
1330-20-7	Xylene (total)	ND		37500	37300	99	37500	38100	102	2	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA38442-1	Limits
1868-53-7	Dibromofluoromethane	107%	105%	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA38442-1MS	1A00688.D	500	11/08/16	AJ	n/a	n/a	V1A27
FA38442-1MSD	1A00689.D	500	11/08/16	AJ	n/a	n/a	V1A27
FA38442-1	1A00673.D	100	11/08/16	AJ	n/a	n/a	V1A27

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-1, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Surrogate Recoveries	MS	MSD	FA38442-1	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	106%	106%	79-125%
2037-26-5	Toluene-D8	97%	97%	97%	85-112%
460-00-4	4-Bromofluorobenzene	99%	99%	101%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA38548-1MS	1A00716.D	1	11/09/16	SP	n/a	n/a	V1A28
FA38548-1MSD	1A00717.D	1	11/09/16	SP	n/a	n/a	V1A28
FA38548-1	1A00696.D	1	11/09/16	SP	n/a	n/a	V1A28

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-4

CAS No.	Compound	FA38548-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	99.9	80	125	97.1	78	3	50-147/21
71-43-2	Benzene	ND		25	22.9	92	25	19.9	80*	14	81-122/14
108-86-1	Bromobenzene	ND		25	21.8	87	25	19.4	78*	12	80-121/14
74-97-5	Bromochloromethane	ND		25	23.1	92	25	20.6	82	11	76-123/14
75-27-4	Bromodichloromethane	ND		25	22.7	91	25	18.8	75*	19	79-123/19
75-25-2	Bromoform	ND		25	19.1	76	25	16.9	68	12	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	108	86	125	106	85	2	56-143/18
104-51-8	n-Butylbenzene	ND		25	21.9	88	25	18.9	76*	15	79-126/16
135-98-8	sec-Butylbenzene	ND		25	22.9	92	25	19.6	78*	16	83-133/16
98-06-6	tert-Butylbenzene	ND		25	22.7	91	25	19.4	78*	16	80-133/16
56-23-5	Carbon Tetrachloride	ND		25	25.4	102	25	20.1	80	23	76-136/23
108-90-7	Chlorobenzene	ND		25	22.9	92	25	20.0	80*	14	82-124/14
75-00-3	Chloroethane	ND		25	23.8	95	25	19.1	76	22*	62-144/20
67-66-3	Chloroform	ND		25	23.5	94	25	20.1	80	16*	80-124/15
95-49-8	o-Chlorotoluene	ND		25	22.5	90	25	19.4	78*	15	81-127/15
106-43-4	p-Chlorotoluene	ND		25	22.2	89	25	19.3	77*	14	83-130/15
124-48-1	Dibromochloromethane	ND		25	20.2	81	25	17.7	71*	13	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	20.5	82	25	19.9	80	3	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	21.4	86	25	19.9	80	7	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	23.7	95	25	19.3	77	20*	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	21.7	87	25	19.3	77*	12	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	22.3	89	25	19.3	77*	14	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	21.8	87	25	18.9	76*	14	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	24.3	97	25	20.8	83	16*	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	23.8	95	25	21.0	84	13	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	25.6	102	25	21.9	88	16	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	22.2	89	25	19.2	77*	14	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.4	106	25	22.3	89	17	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	21.9	88	25	19.3	77	13	76-124/14
142-28-9	1,3-Dichloropropane	ND		25	19.9	80	25	18.3	73*	8	80-118/13
594-20-7	2,2-Dichloropropane	ND		25	25.3	101	25	20.8	83	20*	74-139/17
563-58-6	1,1-Dichloropropene	ND		25	24.3	97	25	20.6	82	16	79-131/16
10061-01-5	cis-1,3-Dichloropropene	ND		25	18.0	72*	25	15.1	60*	18	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	20.9	84	25	17.9	72*	15	80-120/22
108-20-3	Di-Isopropyl Ether	ND		25	21.9	88	25	19.3	77	13	68-123/16
100-41-4	Ethylbenzene	ND		25	21.8	87	25	19.0	76*	14	81-121/14

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA38548-1MS	1A00716.D	1	11/09/16	SP	n/a	n/a	V1A28
FA38548-1MSD	1A00717.D	1	11/09/16	SP	n/a	n/a	V1A28
FA38548-1	1A00696.D	1	11/09/16	SP	n/a	n/a	V1A28

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-4

CAS No.	Compound	FA38548-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
637-92-3	Ethyl Tert Butyl Ether	ND		25	22.4	90	25	20.1	80	11	71-120/14
87-68-3	Hexachlorobutadiene	ND		25	18.9	76	25	17.4	70*	8	75-142/19
591-78-6	2-Hexanone	ND		125	107	86	125	106	85	1	61-129/18
98-82-8	Isopropylbenzene	ND		25	23.1	92	25	20.0	80*	14	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	22.6	90	25	19.3	77*	16	79-130/16
74-83-9	Methyl Bromide	ND		25	22.6	90	25	20.0	80	12	59-143/19
74-87-3	Methyl Chloride	ND		25	21.8	87	25	18.0	72	19	50-159/19
74-95-3	Methylene Bromide	ND		25	22.8	91	25	20.6	82	10	78-119/14
75-09-2	Methylene Chloride	ND		25	21.4	86	25	18.4	74	15	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	113	90	125	110	88	3	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		25	22.6	90	25	20.6	82	9	72-117/14
91-20-3	Naphthalene	ND		25	23.1	92	25	22.7	91	2	63-132/25
103-65-1	n-Propylbenzene	ND		25	22.9	92	25	19.7	79*	15	82-133/15
100-42-5	Styrene	ND		25	21.1	84	25	17.7	71*	18	78-119/23
994-05-8	Tert-Amyl Methyl Ether	ND		25	21.7	87	25	19.9	80	9	73-122/13
75-65-0	Tert-Butyl Alcohol	ND		250	211	84	250	202	81	4	63-129/27
630-20-6	1,1,1,2-Tetrachloroethane	ND		25	22.0	88	25	18.8	75*	16	77-122/19
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.6	86	25	20.3	81	6	72-120/14
127-18-4	Tetrachloroethylene	ND		25	23.8	95	25	20.5	82	15	76-135/16
108-88-3	Toluene	ND		25	21.2	85	25	18.6	74*	13	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	19.9	80	25	19.5	78	2	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	20.3	81	25	19.0	76	7	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	24.7	99	25	20.6	82	18*	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	22.2	89	25	20.4	82	8	76-119/14
79-01-6	Trichloroethylene	ND		25	24.6	98	25	21.0	84	16*	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	25.5	102	25	20.4	82	22*	71-156/21
96-18-4	1,2,3-Trichloropropane	ND		25	22.1	88	25	20.8	83	6	77-120/16
95-63-6	1,2,4-Trimethylbenzene	ND		25	21.8	87	25	18.3	73*	17	79-120/18
108-67-8	1,3,5-Trimethylbenzene	ND		25	22.1	88	25	18.7	75*	17	79-120/19
75-01-4	Vinyl Chloride	ND		25	23.7	95	25	20.0	80	17	69-159/18
1330-20-7	Xylene (total)	ND		75	66.5	89	75	57.5	77*	15	80-126/15

CAS No.	Surrogate Recoveries	MS	MSD	FA38548-1	Limits
1868-53-7	Dibromofluoromethane	104%	105%	99%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA38548-1MS	1A00716.D	1	11/09/16	SP	n/a	n/a	V1A28
FA38548-1MSD	1A00717.D	1	11/09/16	SP	n/a	n/a	V1A28
FA38548-1	1A00696.D	1	11/09/16	SP	n/a	n/a	V1A28

The QC reported here applies to the following samples: **Method:** SW846 8260B

FA38438-4

CAS No.	Surrogate Recoveries	MS	MSD	FA38548-1	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	106%	102%	79-125%
2037-26-5	Toluene-D8	92%	94%	96%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	99%	83-118%

* = Outside of Control Limits.

GC Volatiles

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QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5869-MB	CD140860.D	1	11/07/16	EG	n/a	n/a	GCD5869

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	70-131%
98-08-8	aaa-Trifluorotoluene	78%	69-143%

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5870-MB	CD140892.D	1	11/08/16	EG	n/a	n/a	GCD5870

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-4

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.10	0.050	mg/l	

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	98%	70-131%
98-08-8	aaa-Trifluorotoluene	81%	69-143%

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5869-BS	CD140859.D	1	11/07/16	EG	n/a	n/a	GCD5869

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.347	87	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	89%	70-131%
98-08-8	aaa-Trifluorotoluene	92%	69-143%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GCD5870-BS	CD140891.D	1	11/08/16	EG	n/a	n/a	GCD5870

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-4

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.349	87	75-138

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	94%	70-131%
98-08-8	aaa-Trifluorotoluene	98%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA38494-2MS	CD140867.D	1	11/07/16	EG	n/a	n/a	GCD5869
FA38494-2MSD	CD140868.D	1	11/07/16	EG	n/a	n/a	GCD5869
FA38494-2	CD140863.D	1	11/07/16	EG	n/a	n/a	GCD5869

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15

CAS No.	Compound	FA38494-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	0.10	U	0.4	0.417	104	0.4	0.420	105	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA38494-2	Limits
460-00-4	4-Bromofluorobenzene	102%	105%	101%	70-131%
98-08-8	aaa-Trifluorotoluene	107%	102%	84%	69-143%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA38438-4MS	CD140895.D	20	11/08/16	EG	n/a	n/a	GCD5870
FA38438-4MSD	CD140896.D	20	11/08/16	EG	n/a	n/a	GCD5870
FA38438-4	CD140894.D	20	11/08/16	EG	n/a	n/a	GCD5870

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-4

CAS No.	Compound	FA38438-4 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	6.16		8	13.3	89	8	13.5	92	1	75-138/13

CAS No.	Surrogate Recoveries	MS	MSD	FA38438-4	Limits
460-00-4	4-Bromofluorobenzene	107%	107%	107%	70-131%
98-08-8	aaa-Trifluorotoluene	114%	115%	105%	69-143%

* = Outside of Control Limits.

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP62574-MB	WW6926.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-2A, FA38438-3A, FA38438-4A, FA38438-5A, FA38438-6A, FA38438-7A, FA38438-8A, FA38438-9A, FA38438-10A, FA38438-11A, FA38438-12A, FA38438-13A, FA38438-14A, FA38438-15A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	0.050	0.020	mg/l	
	TPH (> C28-C40)	ND	0.050	0.020	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	103%	50-131%

Method Blank Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP62619-MB	JR003624.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-2, FA38438-3, FA38438-4, FA38438-5, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15, FA38438-16A

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH (C10-C28)	ND	0.050	0.020	mg/l	
	TPH (> C28-C40)	ND	0.050	0.020	mg/l	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	124%	50-131%

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP62574-BS	WW6925.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-2A, FA38438-3A, FA38438-4A, FA38438-5A, FA38438-6A, FA38438-7A, FA38438-8A, FA38438-9A, FA38438-10A, FA38438-11A, FA38438-12A, FA38438-13A, FA38438-14A, FA38438-15A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C28)	1	0.947	95	60-128
	TPH (> C28-C40)	1	0.833	83	51-138

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	99%	50-131%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP62619-BS	JR003623.D	1	11/10/16	SJL	11/09/16	OP62619	GJR140

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-2, FA38438-3, FA38438-4, FA38438-5, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15, FA38438-16A

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH (C10-C28)	1	1.25	125	60-128
	TPH (> C28-C40)	1	0.612	61	51-138

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	118%	50-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP62574-MS	WW6929.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315
OP62574-MSD	WW6930.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315
FA38402-4	WW6928.D	1	11/10/16	SJL	11/07/16	OP62574	GWW315

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-2A, FA38438-3A, FA38438-4A, FA38438-5A, FA38438-6A, FA38438-7A, FA38438-8A, FA38438-9A, FA38438-10A, FA38438-11A, FA38438-12A, FA38438-13A, FA38438-14A, FA38438-15A

CAS No.	Compound	FA38402-4 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	0.047	U	1.89	1.87	99	1.89	1.87	99	0	60-128/33
	TPH (> C28-C40)	0.047	U	1.89	1.63	86	1.89	1.63	86	0	51-138/18

CAS No.	Surrogate Recoveries	MS	MSD	FA38402-4	Limits
84-15-1	o-Terphenyl	100%	99%	97%	50-131%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA38438
Account: TSGCAPH The Source Group - Pleasant Hill
Project: T0600101592 - Paco Pumps; 9201 San Leandro St, Oakland, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP62619-MS	JR003627.D	5	11/10/16	SJL	11/09/16	OP62619	GJR140
OP62619-MSD	JR003628.D	5	11/10/16	SJL	11/09/16	OP62619	GJR140
FA38491-2	JR003626.D	5	11/10/16	SJL	11/09/16	OP62619	GJR140

The QC reported here applies to the following samples: **Method:** SW846 8015C

FA38438-2, FA38438-3, FA38438-4, FA38438-5, FA38438-6, FA38438-7, FA38438-8, FA38438-9, FA38438-10, FA38438-11, FA38438-12, FA38438-13, FA38438-14, FA38438-15, FA38438-16A

CAS No.	Compound	FA38491-2 mg/l	Q	Spike mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	3.80		1.94	5.98	112	1.94	5.60	93	7	60-128/33
	TPH (> C28-C40)	0.167	J	1.94	1.11	49*	1.94	1.14	50*	3	51-138/18

CAS No.	Surrogate Recoveries	MS	MSD	FA38491-2	Limits
84-15-1	o-Terphenyl	109%	113%	105%	50-131%

* = Outside of Control Limits.