PCC Precision Castparts Corp.

November 20, 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 Third *Quarter, 2017 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 Serrurier
Precision Castparts Corp.

LEGAL DEPARTMENT • 4650 SW Macadam Avenue, Suite 400 • Portland, Oregon 97239 • (503) 946-4813 • Fax (503) 946-4817

THIRD QUARTER 2017
GROUNDWATER MONITORING REPORT

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

04-PFT-005

Prepared For:

Precision Castparts Corporation
4600 SE Harney Drive
Portland, OR 97206-0898

Prepared By:

SGI environmental | APEX
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November 17, 2017

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No. 9128
Exp: 11/2018
STATE OF CALIFORNIA

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1.0 INTRODUCTION

The Source Group, Inc. (SGI), a division of Apex Companies, LLC, (Apex-SGI), on behalf of PCC Flow Technologies Holdings, Inc. (PCC), is submitting this *Third Quarter 2017 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 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). In April 2016, a meeting was held with ACEH and a plan for additional investigation and soil removal action was discussed. A follow-up plan has been submitted to ACEH in November 2017.

This report documents the most recent periodic groundwater monitoring event, performed in October 2017.

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 Apex-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.

Apex-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 2000 gallons of groundwater with hydrocarbons. Further, Apex-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. Apex-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

Environmental Sampling Services, LLC of Martinez, California was contracted to conduct the Third Quarter, 2017 groundwater monitoring and sampling event. Sampling activities were conducted on October 17-19, 2017. This section details the monitoring and sampling activities completed.

Of the 28 wells planned for monitoring, six (6) were not accessible. The wells not sampled include:

- MW-3 – damaged, casing filled with dirt; and
- MW-8, E-8, E-10, E-11, and E-12 – not located due to changed Site surface conditions.

These latter wells are all in an area where the concrete surface has been cracked and broken into rubble from everyday use by heavy vehicles and forklift traffic.

3.1.1 Groundwater Monitoring

Groundwater levels were measured in 22 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). Third Quarter 2017 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 22 monitoring wells. Groundwater wells were purged of three well casing volumes using a submersible pump and/or disposable bailer, prior to sample collection. 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 Environmental Sampling Services, LLC of Martinez, 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-C24) by United States Environmental Protection Agency (USEPA) Method 8015M;
- TPHmo (C24-C36) by USEPA Method 8015M; and
- VOCs by USEPA Method 8260B.

Two wells (MW-10 and MW-11) were analyzed for polychlorinated biphenyls (PCBs) by USEPA Method 8082.

Results of the groundwater monitoring and sampling event are presented in Table 2 and 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 Third Quarter 2017 semi-annual groundwater monitoring and sampling event was conducted on October 17-19, 2017. Groundwater levels were measured in all accessible wells, and groundwater samples were collected from each of these wells.

3.2.1 Groundwater Elevations

The depth-to-water measurements ranged from 7.24 feet below top of casing (btoc) in MW-10 to 8.65 feet btoc in E-7. Groundwater elevations ranged from 10.22 feet above msl in MW-1 to 12.12 feet msl in MW-4.

A potentiometric surface map was constructed from the shallow groundwater elevation data and is presented in Figure 3. Third Quarter, 2017 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 0.01 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

A total of 22 wells were sampled as part of the Third Quarter 2017 groundwater monitoring event from October 17-19, 2017. Groundwater samples from 22 wells were analyzed for TPHd, TPHmo, and VOCs (including BTEX and fuel additives). Groundwater samples from wells MW-10 and MW-11 were analyzed for PCBs.

Third Quarter 2017 laboratory analytical results and historical laboratory analytical results are presented in Tables 2 and 3, respectively, and presented on Figure 4. The laboratory reports are presented in Appendix B; analytical results are summarized below:

- TPHd was detected in sixteen (16) wells. TPHd concentrations ranged from 59 Y µg/L (Y-flagged) in MW-9 to 42,000 Y µg/L (Y-flagged) in E-3. This is largely consistent with historical data.
- TPHmo was detected in nine (9) wells. TPHmo concentrations ranged from 320 µg/L in ASMW-2S to 160,000 µg/L in E-3. These wells are downgradient to the former UST adjacent to Building 3.

- Benzene was detected in ten (10) wells, five (5) were located near to or downgradient from the former UST in Area 4: MW-6, ASMW-2S, AS-1S, E-4, and E-9. Concentrations were largely consistent with historic data, ranging from 0.6 µg/L in E-6 to 2,500 µg/L in AS-1S. Benzene was not detected in southwest boundary wells MW-5, MW-9, MW-10, MW-11, and MW-12 indicating that benzene-containing groundwater is delineated within the Site.
- MTBE was detected in two (2) wells. Concentrations ranged from 0.6 µg/L in MW-9 to 0.7 µg/L in E-7. Concentrations were consistent with historic ranges.
- Fuel constituents toluene, ethylbenzene, and xylenes were also detected in groundwater samples. In general, concentration trends of these constituents appear to be stable or decreasing in all but three wells (AS-1S, E-1, and E-7).
- Laboratory analytical results show TPHd and TPHmo were not detected from the sample collected from the deep monitoring well in the former UST area (AS-1D).

4.0 DATA EVALUATION AND RECOMMENDATIONS

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

4.1 Data Evaluation

Groundwater monitoring and sampling was conducted on October 17-19, 2017. 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 0.01 feet/foot, which is consistent with historical groundwater flow patterns.
- TPHd concentration trends appear stable or decreasing. The highest concentrations were detected in wells E-3 (42,000 Y µg/L) and E-9 (27,000 Y µg/L), west (downgradient) of the former gasoline UST adjacent to Building 3.
- TPHmo concentration trends are generally stable, decreasing, and/or within historic ranges. The highest concentrations were detected in wells E-3 (160,000 µg/L), E-5 (24,000 µg/L), and E-6 (3,900 µg/L). Wells E-3, E-5, and E-6 are west (downgradient) of the former gasoline UST adjacent to Building 3.
- The TPHmo concentration in well E-3 (160,000 µg/L) decreases very rapidly downgradient to well E-5 (24,000 µg/L) (located about 12 feet to the west), and decreases again downgradient to well E-6 (3,900 µg/L), located about another 15 feet to the west.
- Benzene concentration trends are generally stable, decreasing, and/or within historic ranges. Benzene was not detected in boundary wells MW-5, MW-9, MW-10, MW-11, and MW-12, indicating that benzene-containing groundwater has been delineated, is stable, and is not migrating from the Site.
- MTBE concentrations were detected in two (2) wells, which were at a concentration above the laboratory reporting limit: MW-9 (0.6 µg/L) and E-7 (0.7 µg/L). Where detected, MTBE concentration trends have been stable or decreasing.

4.2 Recommendations

Apex-SGI recommends continued monitoring groundwater semi-annually for two more events in the First Quarter 2018 and Third Quarter 2018. After the final monitoring, Apex-SGI will review the collected data and make recommendations regarding the need for further assessment/remediation actions.

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.

ACEH. 2014b. Conditional Work Plan Approval. 9201 San Leandro Street, Oakland, California. August 26.

CRWQCB. 2012. Low-Threat Underground Storage Tank Case Closure Policy. May 1.

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.

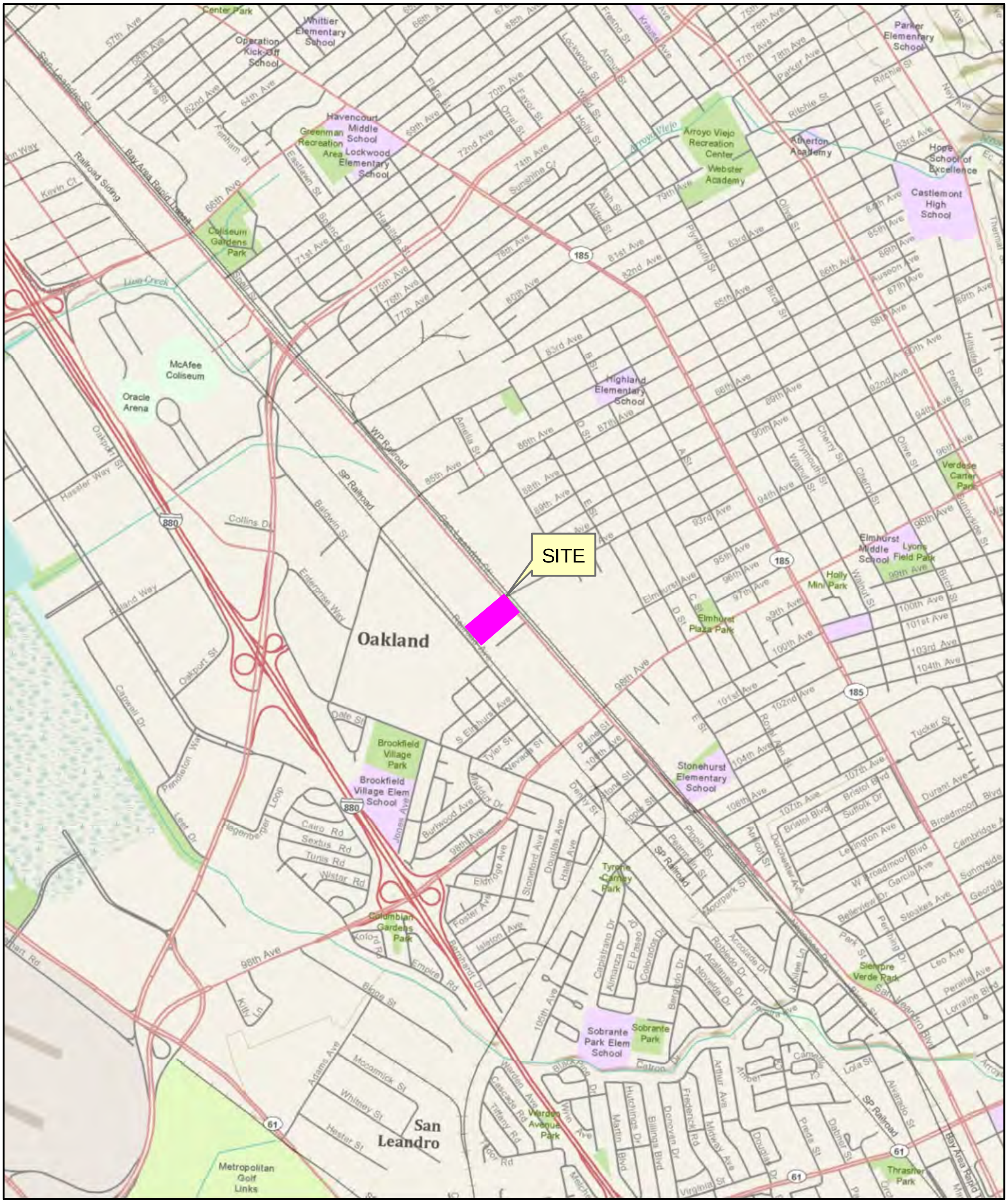
The Source Group, Inc. (SGI). 2012. Sub-Slab Vapor Survey and Remedial Investigation Work Plan. Former PACO Pumps Site, 9201 San Leandro Street, Oakland, California. January 5.

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.

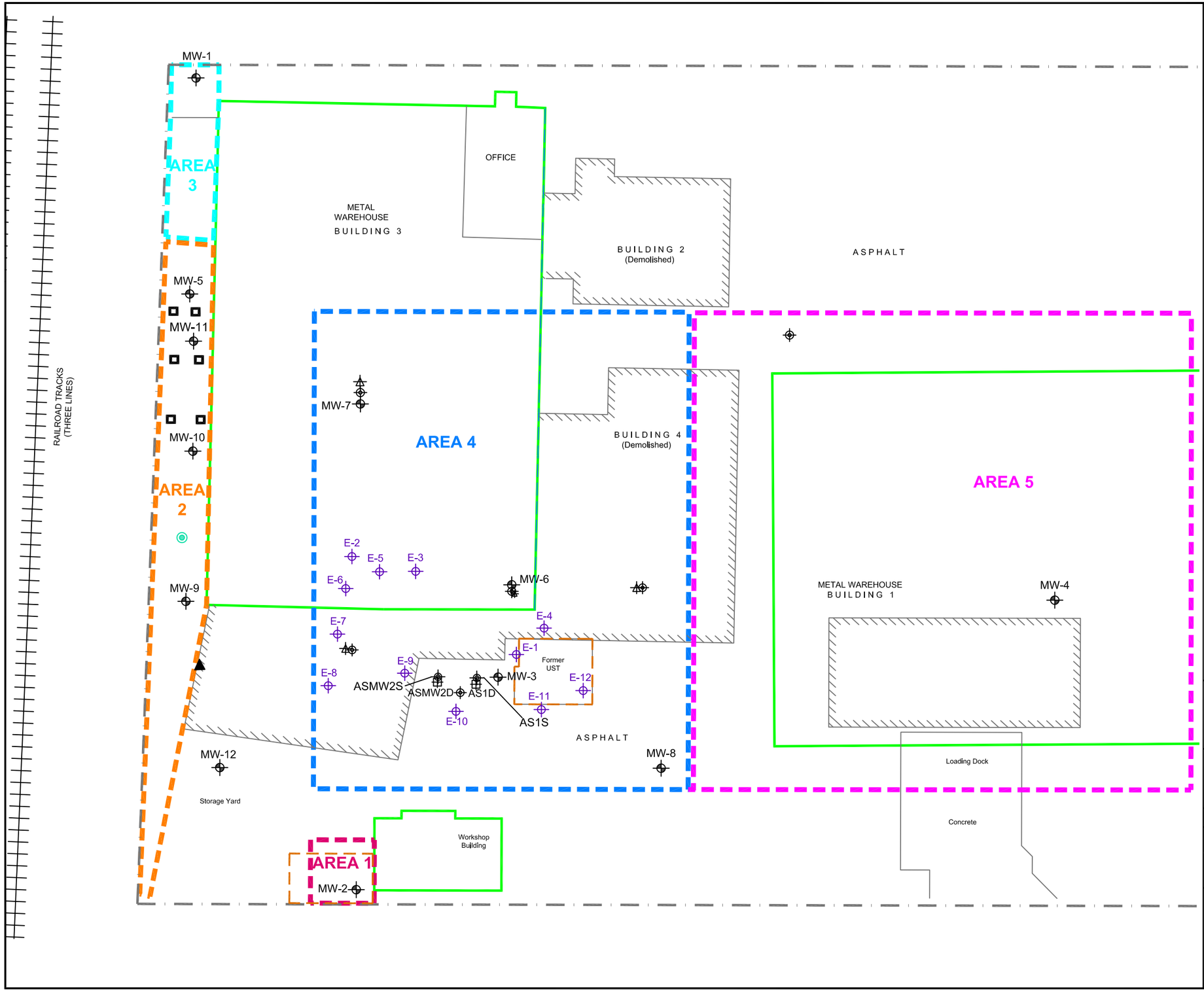
SGI. 2015. Data Gaps Investigation and Groundwater Monitoring Report. Former PACO Pumps Site, 9201 San Leandro Street, Oakland, California. January 6.

FIGURES



SOURCE: 7.5 MINUTE USGS TOPOGRAPHIC MAP FROM ARCGIS MAP SERVICE

SGI environmental / APEX 3478 Buskirk Ave Suite 100 Pleasant HILL, CA 94523	PROJECT NO.: 04-PFT-004	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
- E-1 — Groundwater Monitoring Well by SGI 2010
- Membrane Interface Probe by LFR January 2009
- Grab Groundwater Sample Location by LFR January 2009
- Approximate Proposed PCB Exploratory Boring Locations
- Approximate Proposed MW-13 Location
- Outdoor Ambient Air Sample

SITE PLAN

FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-005	11/15/2017	ZA	JW

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

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

N

FIGURE 2

S:\Clients N - Q\Paco Pumps\Reports\2017 - Q3 Monitoring Report\Figures\Fig.2-Paco Pumps Site Plan.dwg, 11/16/2017 11:30:19 AM

S:\Clients N - Q\Paco Pumps\Reports\2017- Q3 Monitoring Report\Figures\Fig.3-GW Elevation Contours.dwg, 11/16/2017 1:28:02 PM

RAILROAD TRACKS (THREE LINES)

MW-1 10.22

10.2

10.5

10.8

AREA 2

OFFICE

METAL WAREHOUSE BUILDING 3

BUILDING 2 (Demolished)

ASPHALT

MW-5 10.87

MW-11 10.87

MW-7 10.91*

AREA 4

BUILDING 4 (Demolished)

MW-10 10.88

AREA 2

E-2 10.95*

E-5 10.95*

E-3 10.97*

MW-6 10.94*

E-6 10.94*

MW-9 10.88

E-7 10.94*

E-4 10.99*

10.96*

11.01*

E-1 10.83

E-9 10.95*

ASMW2S AS1S

MW-3 NM

E-12 NM

E-8 NM

ASMW2D 10.97*

AS1D 10.96*

E-11 NM

E-10 NM

11.1

11.4

11.7

12.0

AREA 5

METAL WAREHOUSE BUILDING 1

MW-4 12.12

ASPHALT

MW-12 10.88

MW-8 NM

Storage Yard

Loading Dock

Concrete

Workshop Building

AREA 1

MW-2 11.03

10.8

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- E-1 — Groundwater Monitoring Well by SGI 2010
- Membrane Interface Probe by LFR January 2009
- Grab Groundwater Sample Location by LFR January 2009
- Approximate Proposed PCB Exploratory Boring Locations
- Approximate Proposed MW-13 Location
- Outdoor Ambient Air Sample
- 12.12 — Groundwater Elevation (Feet Above Mean Sea Level)
- * — Data Not Used For Contouring
- NM — Not Measured
- Groundwater Flow Direction
- 12.0 — Groundwater Contour(Dashed Where Inferred) (Feet Above Mean Sea Level)

GROUNDWATER ELEVATION AND POTENTIOMETRIC SURFACE MAP- QUARTER 3, 2017

FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA

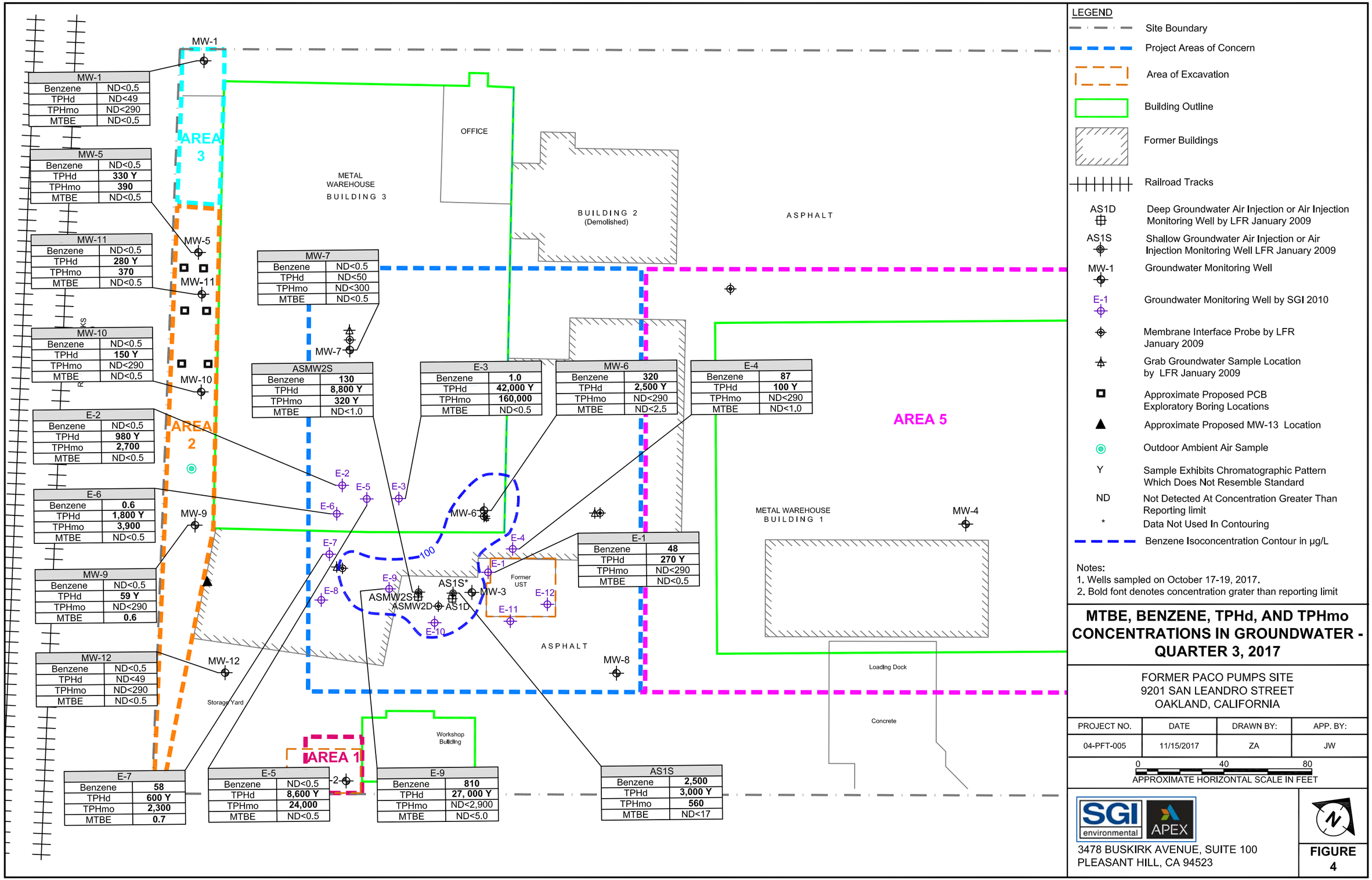
PROJECT NO.	DATE	DRAWN BY:	APP. BY:
04-PFT-005	11/15/2017	ZA	JW

0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET

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

N

FIGURE 3


MW-1
MW-1
Benzene ND<0.5
TPHd ND<49
TPHmo ND<290
MTBE ND<0.5
AREA 3
OFFICE
METAL WAREHOUSE BUILDING 3
BUILDING 2 (Demolished)
ASPHALT
MW-5
MW-5
Benzene ND<0.5
TPHd 330 Y
TPHmo 390
MTBE ND<0.5
MW-11
MW-11
Benzene ND<0.5
TPHd 280 Y
TPHmo 370
MTBE ND<0.5
MW-7
Benzene ND<0.5
TPHd ND<50
TPHmo ND<300
MTBE ND<0.5
MW-7
MW-10
Benzene ND<0.5
TPHd 150 Y
TPHmo ND<290
MTBE ND<0.5
MW-10
ASMW2S
Benzene 130
TPHd 8,800 Y
TPHmo 320 Y
MTBE ND<1.0
E-3
Benzene 1.0
TPHd 42,000 Y
TPHmo 160,000
MTBE ND<0.5
MW-6
Benzene 320
TPHd 2,500 Y
TPHmo ND<290
MTBE ND<2.5
E-4
Benzene 87
TPHd 100 Y
TPHmo ND<290
MTBE ND<1.0
AREA 5
E-2
Benzene ND<0.5
TPHd 980 Y
TPHmo 2,700
MTBE ND<0.5
AREA 2
E-2
E-5
E-3
E-6
MW-6
E-6
Benzene 0.6
TPHd 1,800 Y
TPHmo 3,900
MTBE ND<0.5
MW-9
E-7
E-4
MW-9
Benzene ND<0.5
TPHd 59 Y
TPHmo ND<290
MTBE 0.6
E-1
Benzene 48
TPHd 270 Y
TPHmo ND<290
MTBE ND<0.5
E-9
E-8
ASMW2S
ASMW2D
AS1S*
AS1D
MW-3
Former UST
E-12
E-11
E-10
100
E-1
ASPHALT
MW-12
MW-12
Benzene ND<0.5
TPHd ND<49
TPHmo ND<290
MTBE ND<0.5
MW-8
Storage Yard
METAL WAREHOUSE BUILDING 1
MW-4
Loading Dock
Concrete
Workshop Building
AREA 1
E-7
Benzene 58
TPHd 600 Y
TPHmo 2,300
MTBE 0.7
E-5
Benzene ND<0.5
TPHd 8,600 Y
TPHmo 24,000
MTBE ND<0.5
E-9
Benzene 810
TPHd 27, 000 Y
TPHmo ND<2,900
MTBE ND<5.0
AS1S
Benzene 2,500
TPHd 3,000 Y
TPHmo 560
MTBE ND<17
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
E-1 Groundwater Monitoring Well by SGI 2010
Membrane Interface Probe by LFR January 2009
Grab Groundwater Sample Location by LFR January 2009
Approximate Proposed PCB Exploratory Boring Locations
Approximate Proposed MW-13 Location
Outdoor Ambient Air Sample
Y Sample Exhibits Chromatographic Pattern Which Does Not Resemble Standard
ND Not Detected At Concentration Greater Than Reporting limit
* Data Not Used In Contouring
Benzene Isoconcentration Contour in µg/L
Notes:
1. Wells sampled on October 17-19, 2017.
2. Bold font denotes concentration grater than reporting limit
MTBE, BENZENE, TPHd, AND TPHmo CONCENTRATIONS IN GROUNDWATER - QUARTER 3, 2017
FORMER PACO PUMPS SITE
9201 SAN LEANDRO STREET
OAKLAND, CALIFORNIA
PROJECT NO. 04-PFT-005
DATE 11/15/2017
DRAWN BY: ZA
APP. BY: JW
0 40 80
APPROXIMATE HORIZONTAL SCALE IN FEET
SGI environmental APEX
3478 BUSKIRK AVENUE, SUITE 100
PLEASANT HILL, CA 94523
N
FIGURE 4
S:\Clients N - Q\Paco Pumps\Reports\2017- Q3 Monitoring Report\Figures\Fig.4-MTBE, Benzene, TPH Concentrations.dwg, 11/16/2017 1:45:49 PM

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	10/17/17	17.76	7.54	10.22	19.95
MW-2	10/17/17	19.12	8.09	11.03	20.05
MW-3	10/17/17	19.42	Damaged / filled in with dirt to top of casing		
MW-4	10/17/17	19.37	7.25	12.12	20.00
MW-5	10/17/17	18.21	7.34	10.87	20.14
MW-6	10/17/17	19.46	8.52	10.94	16.33
MW-7	10/17/17	19.44	8.53	10.91	27.05
MW-8	10/17/17	18.27	Unable to access		
MW-9	10/17/17	18.53	7.65	10.88	16.80
MW-10	10/17/17	18.12	7.24	10.88	21.30
MW-11	10/17/17	18.32	7.45	10.87	19.21
MW-12	10/17/17	19.41	8.53	10.88	19.50
AS-1S	10/17/17	19.38	8.37	11.01	16.50
ASMW-2S	10/17/17	19.38	8.42	10.96	16.90
AS-1D	10/17/17	19.31	8.35	10.96	32.79
ASMW-2D	10/17/17	19.52	8.55	10.97	33.70
E-1	10/17/17	19.35	8.33	11.02	17.90
E-2	10/17/17	19.56	8.61	10.95	18.24
E-3	10/17/17	19.52	8.55	10.97	18.09
E-4	10/17/17	19.52	8.53	10.99	18.20
E-5	10/17/17	19.53	8.58	10.95	18.30
E-6	10/17/17	19.46	8.52	10.94	18.07
E-7	10/17/17	19.59	8.65	10.94	18.10
E-8	10/17/17	19.59	Unable to access		
E-9	10/17/17	19.49	8.54	10.95	17.90
E-10	10/17/17	19.30	Unable to access		
E-11	10/17/17	19.19	Unable to access		
E-12	10/17/17	18.89	Unable to access.		

Notes:
[1] Top-of-casing and groundwater elevation in North America Vertical Datum 1988; wells re-surveyed by Tronoff Associates 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
Former Paco Pump Site
9201 San Leandro Street
Oakland, California

Sample Location	Date Collected	Screened Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Aroclor 1016	Aroclor 1254	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
ESLs			***100***	***50,000***	***100***	***1.0***	***40***	***13***	***20***	***5.0***	***0.5 [1]***	***0.5 [1]***	***0.5 (1,2-DCA), 12 (TBA)***
LFR Area 1 - Southwestern Corner of the Site, west of the "workshop building"													
MW-2	10/19/17	5.25-20.25	92 Y	ND<290	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
LFR Area 2 - Area South of the Warehouse Storage Area Building Adjacent to the Southern Property Boundary													
MW-5	10/19/17	5.25-20.25	**330 Y**	390	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
MW-5 (DUP-2)	10/19/17	5.25-20.25	**260 Y**	ND<290	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
MW-9	10/19/17	12-17	59 Y	ND<290	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.6	NA	NA	**0.9 (1,2-DCA)**
MW-10	10/19/17	10-20	**150 Y**	ND<290	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.19	ND<0.19	
MW-11	10/19/17	10-20	**280 Y**	370	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.19	ND<0.19	
LFR Area 3 -													
MW-1	10/19/17	5.25-20.25	ND<49	ND<290	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
LFR Area 4 - Former UST near Groundwater Monitoring Well MW-3													
MW-6	10/18/17	10-17	**2,500 Y**	ND<290	NA	**320**	6.2	12	8.8	ND<2.5	NA	NA	**2.6 (1,2-DCA), 13 (PrBz), 5.1 (IsoPrBz), 3.3 (tert-Bubz), 4.4 (n-Bubz)**
MW-7	10/18/17	20-28	ND<50	ND<300	NA	ND<0.5	ND<0.5	ND<0.5	ND<0/5	ND<0.5	NA	NA	
MW-12	10/18/17	10-20	ND<49	ND<290	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
ASMW-2S	10/18/17	10-17	**8,800 Y**	320 Y	NA	**130**	1.4	**13**	7.0	ND<1.0	NA	NA	**2.3 (1,2-DCA), 9.0 (IsoPrBz), 29 (PrBz), 62 (1,2,4-TMB), 22 (1,3,5-TMB), 3.2 (PIT), 5.8 (tert-Bubz), 6.3 (sec-Bubz), 23 (n-Bubz), 23 (NA)**
ASMW-2D	10/18/17	24-34	ND<49	ND<290	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
ASMW-2D (DUP-1)	10/18/17	24-34	ND<49	ND<290	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
AS-1S	10/18/17	14-17	**3,000 Y**	560	NA	**2,500**	33	**350**	**251**	ND<17	NA	NA	**57 (IsoPrBz), 160 (PrBz), 430 (1,2,4-TMB), 140 (1,3,5-TMB), 200 (NA)**
AS-1D	10/18/17	31-34	ND<49	ND<290	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	

Table 2
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Oakland, California

Sample Location	Date Collected	Screened Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Aroclor 1016	Aroclor 1254	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
E-1	10/18/17	8-18	**270 Y**	ND<290	NA	**48**	12	5.6	8.3	ND<0.5	NA	NA	**2.3 (IsoPrBz), 5.6 (PrBz), 0.6 (tert-Bubz), 0.7 (sec-Bubz), 2.0 (n-Bubz), 14 (1,2,4-TMB), 4.5 (1,3,5-TMB), 4.3 (NA)**
E2	10/17/17	8-18	**980 Y**	2,700	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
E3	10/17/17	8-18	**42,000 Y**	**160,000**	NA	**1.0**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
E-4	10/19/17	8-18	**100 Y**	ND<290	NA	**87**	1.4	3.4	ND<1.0	ND<1.0	NA	NA	**1.7 (IsoPrBz), 3.7 (PrBz)**
E-5	10/17/17	8-18	**8,600 Y**	24,000	NA	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
E-6	10/17/17	8-18	**1,800 Y**	3,900	NA	0.6	ND<0.5	0.9	ND<0.5	ND<0.5	NA	NA	**0.5 (IsoPrBz), 1.0 (PrBz), 1.2 (tert-Bubz)**
E-7	10/18/17	8-18	**600 Y**	2,300	NA	**58**	1.5	3.1	2.7	0.7	NA	NA	**0.9 (1,2-DCA), 0.6 (IsoPrBz), 0.6 (PrBz), 1.6 (tert-Bubz)**
E-9	10/18/17	8-18	**27,000 Y**	ND<2,900	NA	**810**	**120**	**270**	**720**	ND<5.0	NA	NA	**35 (IsoPrBz), 110 (PrBz), 640 (1,2,4-TMB), 170 (1,3,5-TMB), 9.3 (tert-Bubz), 8.6 (sec-BubZ), 18 (n-Bubz), 5.1 (PIT), 130 (NA)**
LFR Area 5 - Suspected Former UST near Groundwater Monitoring Well MW-4													
MW-4	10/17/17	5.25-20.25	ND<49	ND<290	NA	0.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	NA	NA	
Trip Blank Sample													

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Sample Location	Date Collected	Screened Interval	TPHd	TPHmo	TPHg	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Aroclor 1016	Aroclor 1254	Other Compounds
		(feet bgs)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L

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
ND = parameter not present above laboratory reporting limits
(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
TMB = trimethylbenzene

n-PrBz = n-Propylbenzene
IsoPrBz = Isopropylbenzene
ace = Acetone
n-Bubz = n-butylbenzene
sec-Bubz = sec-butylbenzene
tert-Bubz = tert-butylbenzene
PIPT = p-Isopropyltoluene
MIBK = 4-methyl-2-pentanone
NA= Naphthalene
PIT = para-isopropyl toluene

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
PrBz = Propylbenzene

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	NA
MW-2	3/24/17	5.25-20.25	**220 Y**	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-2	10/19/17	5.25-20.25	**92 Y**	<290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	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-5	3/24/17	5.25-20.25	**1,600 Y**	**1,100**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-5	10/19/17	5.25-20.25	**330 Y**	**390**	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND
MW-5 (D)	10/19/17	5.25-20.25	**260 Y**	<290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND

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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-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**	**123**	<100	<1.0	<1.0	<1.0	<3.0	**0.58**	
MW-9	3/24/17	12-17	<50	<300	<50	<0.5	<0.5	<0.5	<0.5	**0.9**	**1.1** (1,2-DCA)
MW-9	10/19/17	12-17	**59 Y**	<290	NA	<0.5	<0.5	<0.5	<0.5	**0.6**	**0.9** (1,2-DCA)
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-10	3/24/17	10-20	**1,400 Y/720 Y***	**1,300**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-10	10/19/17	10-20	**150 Y**	<290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND
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
MW-11	3/24/17	10-20	**1,600 Y/390 Y***	**1,200**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA
MW-11	10/19/17	10-20	**280 Y**	**370**	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND
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
MW-1	3/24/17	5.25-20.25	<50	<300	**53**	**1.3**	**1.0**	**0.8**	**7.2**	<0.5	2.3 (1,2,4-TMB), 0.8 (1,3,5-TMB)
MW-1	10/19/17	5.25-20.25	<49	<290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND
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

Table 3
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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
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
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-6	3/24/17	10-17	**1,900 Y/670 Y***	<330	**2,100**	**1,200**	**28**	**31**	**36**	<6.3	**21** (PrBz), **8.7** (IsoPrBz), **9.0** (tert-Bubz)

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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
MW-6	10/18/17	10-17	**2,500 Y**	<290	NA	**320**	**6.2**	**12**	**8.8**	<2.5	**2.6** (1,2-DCA), **13** (PrBz), **5.1** (IsoPrBz), **3.3** (tert-Bubz), **4.4** (n-Bubz)
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
MW-7	11/2/16	20-28	**126**	**86.1**	NA	NA	NA	NA	NA	NA	NA
MW-7	3/24/17	20-28	**70 Y**	<330	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND
MW-7	10/18/17	20-28	<50	<300	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND
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
MW-12	3/24/17	10-20	**230 Y/58Y***	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND
MW-12	10/18/17	10-20	<49	<290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	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** (1,2,4-TMB) **140** (1,3,5-TMB) **1.0** (TCE)
AS-1S	3/24/17	14-17	**2,300 Y/620 Y***	**1,200/330***	**3,400**	**1,500**	**25.0**	**130**	**139**	<10	**19** (IsoPrBz), **34** (PrBz), **120** (1,2,4-TMB), **66** (1,3,5-TMB), **94** (NA)
AS-1S	10/18/17	14-17	**3,000 Y**	**560**	NA	**2,500**	**33**	**350**	**251**	<17	**57** (IsoPrBz), **160** (PrBz), **430** (1,2,4-TMB), **140** (1,3,5-TMB), **200** (NA)
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** (1,2,4-TMB) **31.5** (1,3,5-TMB)

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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
ASMW2S	3/24/17	10-17	**790Y/140Y***	**460**	**360**	**37**	**0.7**	**1.6**	**0.7**	**1.1**	**11** (TBA), **2.3** (1,2-DCA), **4.8** (IsoPrBz), **7.1** (PrBz), **4.3** (tert-Bubz), **1.4** (sec-Bubz), **3.7** (n-Bubz), **2.6** (NA)
ASMW2S	10/18/17	10-17	**8,800 Y**	**320 Y**	NA	**130**	**1.4**	**13**	**7.0**	<1.0	**2.3** (1,2-DCA), **9.0** (IsoPrBz), **29** (PrBz), **62** (1,2,4-TMB), 22 (1,3,5-TMB), **3.2** (PIT), **5.8** (tert-Bubz), **6.3** (sec-Bubz), **23** (n-Bubz), **23** (NA)
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
AS-1D	3/24/17	31-34	**58Y**	**350**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND
AS-1D	10/18/17	31-34	<49	<290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	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
ASMW 2D	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)
ASMW 2D	3/24/17	24-34	**350 Y/210Y***	<300	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND
ASMW 2D	10/18/17	24-34	<49	<290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND
ASMW-2D (D)	10/18/17	24-34	<49	<290	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND
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
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** (1,2,4-TMB) **10.6** (1,3,5-TMB) **0.25 J** (TCE)
E-1	3/24/17	8-18	**360 Y**	**490**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND
E-1	10/18/17	8-18	**270 Y**	<290	NA	**48**	**12**	**5.6**	**8.3**	<0.5	**2.3** (IsoPrBz), **5.6** (PrBz), **0.6** (tert-Bubz), **0.7** (sec-Bubz), **2.0** (n-Bubz), **14** (1,2,4-TMB), **4.5** (1,3,5-TMB), **4.3** (NA)
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
E2	3/24/17	8-18	**460 Y/110 Y***	**720**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND
E2	10/17/17	8-18	**980 Y**	**2,700**	NA	<0.5	<0.5	<0.5	<0.5	<0.5	ND

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
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)
E3	3/24/17	8-18	**170,000 Y/ 120,000 Y***	**590,000/ 430,000***	**270**	<0.5	<0.5	<0.5	<0.5	<0.5	**11** (TBA)
E3	10/17/17	8-18	**42,000 Y**	**160,000**	NA	**1.0**	<0.5	<0.5	<0.5	<0.5	ND
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** (1,2,4-TMB)
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)
E-4	3/24/17	8-18	**830 Y/120 Y***	**1,500/720 Y***	**510**	**51**	**3.5**	**2.8**	**2.2**	<0.5	**22** (TBA), **2.0** (1,2-DCA), **7.2** (IsoPrBz), **13** (PrBz), **2.2** (tert-Bubz), **1.1** (sec-Bubz), 0.9 (1,2,4-TMB), **0.7** (1,3,5-TMB), **3.2** (NA)
E-4 (Dup-2)	3/24/17	8-18	**1,100 Y/130 Y***	**1,400/770 Y***	**290**	**32**	**2.3**	**1.8**	**1.4**	<0.5	**20** (TBA), 1.6 (1,2-DCA), **4.8** (IsoPrBz), **8.2** (PrBz), **0.7** (1,2,4-TMB), **1.7** (tert-Bubz), **0.7** (sec-Bubz)
E-4	10/19/17	8-18	**100 Y**	<290	NA	**87**	**1.4**	**3.4**	<1.0	<1.0	**1.7** (IsoPrBz), **3.7** (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
E-5	3/24/17	8-18	**4,300 Y/3,400 Y***	**11,000/ 11,000***	<50	<0.5	<0.5	<0.5	<0.5	<0.5	ND
E-5	10/17/17	8-18	**8,600 Y**	**24,000**	NA	<0.5	<0.5	<0.5	<0.5	<0.5	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)
E-6	3/24/17	8-18	**510 Y/140 Y***	**750**	**69**	<0.5	<0.5	<0.5	<0.5	<0.5	**1.8** (tert-Bubz)
E-6	10/17/17	8-18	**1,800 Y**	**3,900**	NA	**0.6**	<0.5	<0.5	<0.5	<0.5	**0.5** (IsoPrBz), **1.0** (PrBz), **1.2** (tert-Bubz)
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)
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)

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	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** (1,2,4-TMB) **0.21 J** (1,3,5-TMB)
E-7	3/24/17	8-18	**2,100 Y/750 Y***	**5,000/3,100***	**92**	<0.5	<0.5	<0.5	<0.5	**0.5**	**20** (TBA), 0.9 (1,2-DCA), **1.7** (tert-Bubz)
E-7	10/18/17	8-18	**600 Y**	**2,300**	NA	**58**	**1.5**	**3.1**	**2.7**	**0.7**	**0.9** (1,2-DCA), **0.6** (IsoPrBz), **0.6** (PrBz), **1.6** (tert-Bubz)
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** (1,2,4-TMB) **322** (1,3,5-TMB)
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** (1,2,4-TMB) **322** (1,3,5-TMB) **2.2** (TCE)
E-9	3/24/17	8-18	**11,000 Y/ 7,300 Y***	**1,400 Y/ 850 Y***	**16,000**	**1,600**	**220**	**190**	**950**	<8.3	**24** (IsoPrBz), **39** (PrBz), **640** (1,2,4-TMB), **200** (1,3,5-TMB), **14** (tert-Bubz), **9.1** (PIT), **160** (NA)
E-9 (Dup-1)	3/24/17	8-18	**51,000 Y/ 42,000 Y***	<6,000	**15,000**	**1,700**	**210**	**190**	**920**	<8.3	**25** (IsoPrBz), **36** (PrBz), **610** (1,2,4-TMB), **180** (1,3,5-TMB), **14** (tert-Bubz), **160** (NA)
E-9	10/18/17	8-18	**27,000 Y**	<2,900	NA	**810**	**120**	**270**	**720**	<5.0	**35** (IsoPrBz), **110** (PrBz), **640** (1,2,4-TMB), **170** (1,3,5-TMB), **9.3** (tert-Bubz), **8.6** (sec-BubZ), **18** (n-Bubz), **5.1** (PIT), **130** (NA)
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)

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 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
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
MW-4	3/24/17	5.25-20.25	<50	<300	**73**	**5.1**	**0.9**	**2.1**	**5.5**	<0.5	**2.0** (1,2,4-TMB), **0.7** (1,3,5-TMB),**1.3** (PrBz)
MW-4	10/17/17	5.25-20.25	<49	<290	NA	**0.8**	<0.5	<0.5	<0.5	<0.5	ND
Tier 1 ESLs - Groundwater *is* current or potential drinking water source			**100**	**100**	**100**	**1.0**	**40**	**13**	**20**	**5.0**	

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
1,2,4-TMB = 1,2,4-Trimethylbenzene
1,3,5-TMB = 1,3,5-Trimethybenzene
TCE= Trichloroethylene
tert-Bubz = tert-Butylbenzene
1,1-DCA = 1,1-Dichloroethane
MEK = Methyl ethyl ketone
PrBz = Propylbenzene
IsoPrBz = Isopropylbenzene

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

Environmental Sampling Services, LLC

Table 1: Summary of October 2017 Groundwater Monitoring Event
Project Name: Former Paco Pumps
Project Location: 9201 San Leandro Street, Oakland, California

Well Identification	Measurement Date (mm/dd/yy)	Measurement Time	Depth to Groundwater (Feet, below TOC)	Total Well Depth (Feet, below TOC)	Sample Date (mm/dd/yy)	Sample Time	QA/QC Type	QA/QC Sample Identification	QA/QC Sample Time
MW-1	10/17/17	11:58	7.54	19.95	10/19/17	10:18	None	-	-
MW-2	10/17/17	11:22	8.09	20.05	10/19/17	14:32	None	-	-
MW-3	10/17/17	Damaged / Filled in with dirt to top of casing							
MW-4	10/17/17	11:33	7.25	20.00	10/17/17	13:10	None	-	-
MW-5	10/17/17	10:43	7.34	20.14	10/19/17	10:58	Duplicate	DUP-2	11:30
MW-6	10/17/17	11:38	8.52	16.33	10/18/17	10:14	None	-	-
MW-7	10/17/17	11:51	8.53	27.05	10/18/17	9:18	None	-	-
MW-8	10/17/17	Unable to access							
MW-9	10/17/17	10:51	7.65	16.80	10/19/17	13:42	None	-	-
MW-10	10/17/17	10:49	7.24	21.30	10/19/17	12:33	None	-	-
MW-11	10/17/17	10:46	7.45	19.21	10/19/17	11:50	None	-	-
MW-12	10/17/17	11:19	8.53	19.50	10/18/17	16:34	None	-	-
AS-1S	10/17/17	11:14	8.37	16.50	10/18/17	11:55	None	-	-
ASMW-2S	10/17/17	11:03	8.42	16.90	10/18/17	12:46	None	-	-
AS-1D	10/17/17	11:17	8.35	32.79	10/18/17	11:18	None	-	-
ASMW-2D	10/17/17	11:10	8.55	33.70	10/18/17	13:45	Duplicate	DUP-1	14:15
EW-1	10/17/17	11:53	8.33	17.90	10/18/17	17:20	None	-	-
EW-2	10/17/17	11:48	8.61	18.24	10/17/17	14:25	None	-	-
EW-3	10/17/17	11:41	8.55	18.09	10/17/17	16:42	None	-	-
EW-4	10/17/17	11:29	8.53	18.20	10/19/17	9:27	None	-	-
EW-5	10/17/17	11:43	8.58	18.30	10/17/17	15:58	None	-	-
EW-6	10/17/17	11:46	8.52	18.07	10/17/17	15:10	None	-	-
EW-7	10/17/17	10:55	8.65	18.10	10/18/17	15:46	None	-	-
EW-8	10/17/17	Unable to access							
EW-9	10/17/17	10:57	8.54	17.90	10/18/17	14:47	None	-	-
EW-10	10/17/17	Unable to access							
EW-11	10/17/17	Unable to access							
EW-12	10/17/17	Unable to access							

Notes:
TOC = Top of Well Casing

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-1** DATE: 10/19/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Overcast, 57°
Well Diameter: 1" 2" (4") 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) / No Bolt Size: Missing 9/16" bolts | Type of lock / Lock number: Master
Screen Interval (Ft., BTOC): _____ | Set pump intake @_____(Ft., BTOC) / (Top of Wtr. Column)
Purge Method: NA Disp. PE Bailer (Centrifugal Pump) Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: NA (PE) Teflon / Other - (New) / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: NA / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 7.52 @ 1000 Ending Water Level: 7.51
TD = 19.95 - 7.52 (DTW) = 12.43 (Ft. of water) x "K" = 8.12 (Gals./CV) x 3 (No. of CV) = 24.4 (Gals.)
"K" = 0.04 (1" well) "K" = .163 (2" well) ("K" = 0.653 (4" well)) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/19/17	1007	5	20.23	793	6.93	32.0	3.37	68.3	
	1009	10	20.01	795	7.00	11.1	3.97	63.4	
	1011	15	20.06	796	7.00	6.52	3.90	63.4	
	1013	20	19.97	793	7.07	3.26	3.92	65.8	
	1015	25	20.01	793	7.06	3.28	4.06	69.4	

Total Discharge: 29 Gallons 3.6 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/19/17 @ 1018 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: None @ ——— as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-2** DATE: 10/19/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Overcast, 62°
Well Diameter: 1" 2" (4") 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) / No Bolt Size: 9/16" | Type of lock / Lock number: Master
Screen Interval (Ft., BTOC): _____ | Set pump intake @ _____ (Ft., BTOC) / (Top of Wtr. Column)
Purge Method: NA Disp. PE Bailer (Centrifugal Pump) Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: NA (PE) Teflon / Other (New) Cleaned / Dedicated Bailer Line: NA (New) Cleaned / Dedicated
Method of Cleaning Pump: NA / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 8.04 @ 1409 Ending Water Level: 8.15
TD = 20.05 - 8.04 (DTW) = 12.01 (Ft. of water) x "K" = 7.84 (Gals./CV) x 3 (No. of CV) = 23.52 (Gals.)
"K" = 0.04 (1" well) "K" = .163 (2" well) ("K" = 0.653 (4" well)) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/19/17	1417	5	21.09	1098	7.13	8.95	4.22	36.9	
	1419	10	21.49	1057	7.04	5.72	5.95	29.1	
	1421	15	21.19	1049	7.04	3.50	4.80	36.0	
	1424	20	21.23	1054	7.06	3.37	5.48	34.7	
	1426	25	21.18	1042	7.02	3.65	4.53	37.2	
	1429	30	21.20	1043	7.02	3.41	4.51	43.2	

Total Discharge: 32.5 Gallons 4.2 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/19/17 @ 1432 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: None @ ——— as a Duplicate (Equipment Blank) Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-4** DATE: 10/17/2017

Project Name: Former Paco Pumps, Oakland, CA
Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225
Weather Conditions: Mostly cloudy, 75°
Well Diameter: 1" 2" (4") 6" Other: _____
Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) No Bolt Size: NA
Type of lock / Lock number: No lock inside wheelwell
Screen Interval (Ft., BTOC): NA
Set pump intake @ _____ (Ft., BTOC) / (Top of Wtr. Column)
Purge Method: NA Disp. PE Bailer (Centrifugal Pump) Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: NA / (PE) / Teflon / Other - (New) / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 7.26 @ 12:35 Ending Water Level: 7.63
TD = 20.00 - 7.26 (DTW) = 12.74 (Ft. of water) x "K" = 8.32 (Gals./CV) x 3 (No. of CV) = 25 (Gals.)
"K" = 0.04 (1" well) "K" = .163 (2" well) ("K" = 0.653 (4" well)) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/17/17	12:56	5	19.79	793	6.64	28.2	4.30	141.1	
	12:58	10	19.22	798	6.60	6.60	4.42	62.2	
	13:00	15	19.16	789	6.58	2.59	4.12	62.7	
	13:02	20	19.11	781	6.58	4.38	3.94	86.9	
	13:04	25	19.15	779	6.60	7.84	3.88	103.4	

Total Discharge: 27 Gallons 3x3 CV Removed
Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/17/17 @ 13:10
Analysis: VOCs (8260B); TPH-D (8015M).
Notes: well lid is a diamond plate steel

QA/QC: None @ —— as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-5** DATE: 10/19/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Overcast, 59°
Well Diameter: 1" 2" (4") 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) / No Bolt Size: _____ | Type of lock / Lock number: Master
Screen Interval (Ft., BTOC): _____ | Set pump intake @ _____ (Ft., BTOC) / (Top of Wtr. Column)
Purge Method: NA Disp. PE Bailer (Centrifugal Pump) Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: NA (PE) / Teflon / Other - (New) / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 7.32 @ 1038 Ending Water Level: 7.41
TD = 20.14 - 7.32 (DTW) = 12.82 (Ft. of water) x "K" = 8.4 (Gals./CV) x 3 (No. of CV) = 25.2 (Gals.)
"K" = 0.04 (1" well) "K" = .163 (2" well) ("K" = 0.653 (4" well)) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm°) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/19/17	1043	5	21.18	401	7.07	7.39	3.40	-127.0	
	1045	10	19.97	499	7.18	2.14	4.08	-93.1	
	1047	15	20.17	505	7.12	1.52	4.46	-66.2	
	1049	20	20.12	519	7.13	0.87	4.70	-45.1	
	1052	25	20.14	529	7.11	0.63	4.76	-33.7	
↓	1054	30	20.	538	7.11	0.54	4.79	-18.7	

Total Discharge: 34 Gallons 4 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/19/17 @ 1058 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: Dup-2 @ 1130 as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-6** DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA
Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225
Weather Conditions: Partly cloudy, 54°
Well Diameter: 1" (2") 4" 6" Other: ____
Well Type: (PVC) / Stainless Steel / Other: ____
Is Well Secured? (Yes) / No Bolt Size: 1/2"
Type of lock / Lock number: Dolphin lock
Screen Interval (Ft., BTOC): ____
Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: ____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: ____
Beginning Water Level (DTW BTOC): 8.53 @ 9:54 Ending Water Level: 8.65
TD = 16.33 - 8.53 (DTW) = 7.80 (Ft. of water) x "K" = 1.3 (Gals./CV) x 3 (No. of CV) = 3.9 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	9:59	1	18.49	1689	6.59	81.1	1.19	-46.9	
	10:03	2	18.83	1454	6.75	57.6	1.08	-71.0	
	10:06	3	19.06	1448	6.77	269	1.27	-69.3	
	10:09	4	19.00	1344	6.79	154	1.21	-59.6	
	10:12	5	19.09	1367	6.82	189	1.30	59.7	

Total Discharge: 5 Gallons 3.9 CV Removed
Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/18/17 @ 10:14
Analysis: VOCs (8260B); TPH-D (8015M).
Notes: ____

QA/QC: None @ ____ as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-7** DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA
Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225
Weather Conditions: Partly cloudy, 48°
Well Diameter: 1" (2") 4" 6" Other: ____
Well Type (PVC) / Stainless Steel / Other: ____
Is Well Secured? (Yes) / No Bolt Size: 1/2"
Type of lock / Lock number: Dolphin lock
Screen Interval (Ft., BTOC): ——
Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: ____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: ____
Beginning Water Level (DTW BTOC): 8.53 @ 8:46 Ending Water Level: 8.57
TD = 27.05 - 8.53 (DTW) = 18.52 (Ft. of water) x "K" = 3.02 (Gals./CV) x 3 (No. of CV) = 9.06 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	8:58	2	18.55	852	6.89	8.01	1.43	206.9	
	9:03	4	18.54	856	6.92	>1,000	1.20	199.5	
	9:06	6	18.49	856	6.95	>1,000	1.40	196.9	
	9:11	8	18.50	857	6.96	>1,000	1.38	193.5	
	9:15	10	18.53	859	6.96	>1,000	1.39	191.4	

Total Discharge: 10 Gallons 3.3 CV Removed
Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/18/17 @ 9:18
Analysis: VOCs (8260B); TPH-D (8015M).
Notes: ____

QA/QC: None @ —— as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-9** DATE: 10/19/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Overcast, 63°
Well Diameter: 1" (2") 4" 6" Other: ____ | Well Type: (PVC) / Stainless Steel / Other: ____
Is Well Secured? (Yes) / No Bolt Size: 9/16" | Type of lock / Lock number: Master
Screen Interval (Ft., BTOC): ____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: ____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: ____
Beginning Water Level (DTW BTOC): 7.62 @ 1317 Ending Water Level: 7.84
TD = 16.80 - 7.62 (DTW) = 9.18 (Ft. of water) x "K" = 1.5 (Gals./CV) x 3 (No. of CV) = 4.5 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/19/17	1324	1	19.86	1003	7.00	587	1.90	102.1	
	1328	2	19.58	1028	7.05	>1000	1.96	35.8	
	1332	3	19.34	1025	7.01	>1,000	1.22	14.0	
	1336	4	19.26	1020	6.99	>1,000	1.30	6.5	
	1339	5	19.35	1021	7.05	>1,000	1.80	4.4	

Total Discharge: 5 Gallons 3.3 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/19/17 @ 1342 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: ____

QA/QC: None @ ____ as a Duplicate Equipment Blank Field Blank MS/MSD
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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-10** DATE: 10/19/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Overcast, 66°
Well Diameter: 1" (2") 4" 6" Other: ____ | Well Type: (PVC) / Stainless Steel / Other: ____
Is Well Secured? (Yes) / No Bolt Size: 9/16" | Type of lock / Lock number: Master
Screen Interval (Ft., BTOC): ____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: ____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: ____
Beginning Water Level (DTW BTOC): 7.22@1210 Ending Water Level: 7.22
TD = 21.30 - 7.22 (DTW) = 14.08 (Ft. of water) x "K" = 2.3 (Gals./CV) x 3 (No. of CV) = 6.9 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm[c]) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/19/17	1216	2	19.83	613	7.37	531	1.23	7.1	
	1222	4	19.84	625	7.22	616	1.35	-4.3	
	1226	6	19.71	635	7.16	425	1.04	-7.8	
	1230	8	19.70	642	7.16	486	1.33	-6.7	

Total Discharge: 8 Gallons 3.5 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/19/17 @ 1233 | Analysis: VOCs (8260B); TPH-D (8015M) & PCBs (8082).
Notes: ____

QA/QC: None @ ____ as a Duplicate Equipment Blank Field Blank MS/MSD
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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **MW-11** DATE: 10/19/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Overcast, 66°
Well Diameter: 1" (2") 4" 6" Other: ____ | Well Type: (PVC) / Stainless Steel / Other: ____
Is Well Secured? (Yes) / No Bolt Size: 9/16" | Type of lock / Lock number: Master
Screen Interval (Ft., BTOC): ____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: ____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: ____
Beginning Water Level (DTW BTOC): 7.45 @ 1129 Ending Water Level: 7.46
TD = 19.21 - 7.45 (DTW) = 11.76 (Ft. of water) x "K" = 1.92 (Gals./CV) x 3 (No. of CV) = 5.76 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/19/17	1132	1	20.89	485	7.18	107	1.47	61.0	
	1135	2	20.44	493	7.10	293	1.07	-36.3	
	1138	3	20.12	497	7.10	211	1.42	-56.6	
	1141	4	20.24	496	7.11	368	1.35	-60.5	
	1144	5	20.24	500	7.12	363	1.56	-59.4	
	1147	6	20.24	502	7.11	315	1.36	-59.1	

Total Discharge: 6.5 Gallons 3.4 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/19/17 @ 1150 | Analysis: VOCs (8260B); TPH-D (8015M) & PCBs (8082).
Notes: ____

QA/QC: None @ ____ as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET

WELL IDENTIFICATION: **MW-12** DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA
Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225
Weather Conditions: Clear & breezy, 66°
Well Diameter: 1" (2") 4" 6" Other: _____
Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) No Bolt Size: 9/16"
Type of lock / Lock number: No lock
Screen Interval (Ft., BTOC): —
Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 8.50 @ 1612 Ending Water Level: 8.53
TD = 19.50 - 8.50 (DTW) = 11.0 (Ft. of water) x "K" = 1.8 (Gals./CV) x 3 (No. of CV) = 5.4 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	1617	1	19.84	1067	6.99	748	1.34	49.7	
	1619	2	19.88	1102	6.91	560	1.11	56.3	
	1622	3	19.73	1113	6.91	769	1.41	60.7	
	1625	4	19.38	1110	6.89	756	1.45	70.3	
	1627	5	19.34	1120	6.90	959	1.48	74.4	
	1630	6	19.33	1120	6.90	695	1.13	76.6	

Total Discharge: 6 Gallons 3.3 CV Removed
Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/18/17 @ 1634
Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: None @ — as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **AS-1S** DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Partly cloudy, 59°
Well Diameter: 1" (2") 4" 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) / No Bolt Size: 1/2" missing bolts | Type of lock / Lock number: Master lock
Screen Interval (Ft., BTOC): _____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) PE / Teflon / Other - New / Cleaned / Dedicated | Bailer Line: NA (New) Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet | OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 8.39 @ 1137 | Ending Water Level: 8.44
TD = 16.50 - 8.39 (DTW) = 8.11 (Ft. of water) x "K" = 1.32 (Gals./CV) x 3 (No. of CV) = 3.96 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	1144	1	20.00	1416	6.78	58.7	0.94	-102.6	
	1146	2	20.27	1400	6.80	95.1	1.13	-107.1	
	1149	3	20.33	1386	6.79	59.4	1.16	-105.6	
	1152	4	20.35	1376	6.80	51.9	1.38	-103.5	

Total Discharge: 4 Gallons 3.03 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/18/17 @ 1155 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: None @ ——— as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **ASMW-2S** DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC

Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Clear, 63°

Well Diameter: 1" (2") 4" 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____

Is Well Secured? (Yes) / No Bolt Size: ½" (missing bolts) | Type of lock / Lock number: Master lock

Screen Interval (Ft., BTOC): — | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column

Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump

Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated

Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____

Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs

Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)

Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm

Water Level Meter Serial No.: (OW 9371-1) 25083 / 25742 / 49914 / 56500 / Other: _____

Beginning Water Level (DTW BTOC): 8.45 @ 1226 Ending Water Level: 8.45

TD = 16.90 - 8.45 (DTW) = 8.45 (Ft. of water) x "K" = 1.4 (Gals./CV) x 3 (No. of CV) = 4.2 (Gals.)

"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	1231	1	20.17	1415	6.80	262	1.20	-107.0	Moderate petroleum hydrocarbon odor and a light sheen
	1234	2	20.33	1431	6.75	160	0.78	-95.0	
	1237	3	20.32	1404	6.75	82.7	0.86	-85.5	
	1241	4	20.40	1379	6.75	160	1.04	-82.1	
	1244	5	20.4	1361	6.75	221	1.03	-80.3	

Total Discharge: 5 Gallons 3.6 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)

Date / Time Sampled: 10/18/17 @ 1246 | Analysis: VOCs (8260B); TPH-D (8015M).

Notes: _____

QA/QC: None @ ——— as a Duplicate Equipment Blank Field Blank MS/MSD

Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **AS-1D** DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Partly cloudy, 59°
Well Diameter: 1" (2") 4" 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) No Bolt Size: 1/2" (Missing bolts) | Type of lock / Lock number: Master lock
Screen Interval (Ft., BTOC): _____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 8.36 @ 1049 Ending Water Level: 8.38
TD = 32.79 - 8.36 (DTW) = 24.43 (Ft. of water) x "K" = 4.0 (Gals./CV) x 3 (No. of CV) = 12 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	1058	3	18.22	418	7.26	29.5	3.07	61.1	
	1103	6	18.74	731	6.97	288	1.22	70.4	
	1109	9	18.79	736	6.96	369	1.15	79.9	
	1116	12	18.77	740	6.99	368	1.55	86.1	

Total Discharge: 12 Gallons 3 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/18/17 @ 1118 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: None @ —— as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

Environmental
Sampling Services, LLC

WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **ASMW-2D** DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: clear, 60°
Well Diameter: 1" (2") 4" 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) / No Bolt Size: ½" (missing bolts) | Type of lock / Lock number: Master lock
Screen Interval (Ft., BTOC): _____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 8.54 @ 1307 Ending Water Level: 8.54
TD = 33.70 - 8.54 (DTW) = 25.16 (Ft. of water) x "K" = 4.1 (Gals./CV) x 3 (No. of CV) = 12.3 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	1317	3	19.45	775	6.99	93.5	1.16	-47.2	
	1323	6	19.37	771	6.98	61.2	1.30	-5.3	
	1328	9	19.33	766	6.98	70.2	1.24	24.1	
	1335	12	19.40	772	6.98	92.9	1.27	42.7	
↓	1343	15	19.37	772	6.97	123	1.32	58.4	

Total Discharge: 15 Gallons 3.7 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/18/17 @ 1345 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: DUP-1 @ 1415 as a (Duplicate) Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **E-1** DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Clear + breezy, 60°
Well Diameter: 1" (2") 4" 6" Other: ____ | Well Type: (PVC) / Stainless Steel / Other: ____
Is Well Secured? Yes / No Bolt Size: Missing bolts 9/16" | Type of lock / Lock number: No lock
Screen Interval (Ft., BTOC): — | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: NA / PE / Teflon / Other - New / Cleaned / Dedicated | Bailer Line: NA (New) Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: ____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet | OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: ____
Beginning Water Level (DTW BTOC): 8.34@1701 | Ending Water Level: 8.71
TD = 17.90 - 8.34 (DTW) = 9.56 (Ft. of water) x "K" = 1.6 (Gals./CV) x 3 (No. of CV) = 4.8 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	1705	1	19.74	678	7.08	342	1.14	-95.2	Slight petroleum hydrocarbon odor
	1707	2	19.69	677	7.14	207	1.14	-94.7	
	1710	3	19.66	669	7.15	579	1.35	-84.2	
	1714	4	19.63	657	7.15	984	0.98	-75.0	
	1717	5	19.69	649	7.16	535	1.03	-65.3	

Total Discharge: 5 Gallons 3.1 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/18/17 @ 1720 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: ____

QA/QC: None @ — as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: E-2 DATE: 10/17/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Mostly cloudy 75°
Well Diameter: 1" (2") 4" 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) / No Bolt Size: 9/16" | Type of lock / Lock number: Dolphin lock
Screen Interval (Ft., BTOC): _____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 8.59 @ 14:01 Ending Water Level: 8.65
TD = 18.24 - 8.59 (DTW) = 9.65 (Ft. of water) x "K" = 1.6 (Gals./CV) x 3 (No. of CV) = 4.8 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/17/17	14:07	1	20.79	1227	6.72	157	0.93	-69.2	Very light sheen on purge water
	14:10	2	20.37	1189	6.72	234	0.77	-59.5	
	14:13	3	20.54	1215	6.73	419	1.14	-49.4	
	14:16	4	20.40	1201	6.76	634	1.35	-38.6	
	14:19	5	20.39	1169	6.76	555	1.22	-27.9	
	14:22	6	20.24	1153	6.75	366	1.09	-26.2	

Total Discharge: 6 Gallons 3.8 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/17/17 @ 14:25 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: Soft bottom, a lot of sediment @ bottom of well

QA/QC: None @ —— as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **E-3** DATE: 10/17/2017

Project Name: Former Paco Pumps, Oakland, CA
Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225
Weather Conditions: Mostly cloudy, 76°
Well Diameter: 1" (2") 4" 6" Other: ____
Well Type: (PVC) / Stainless Steel / Other: ____
Is Well Secured? (Yes) / No Bolt Size: 9/16"
Type of lock / Lock number: Dolphin lock
Screen Interval (Ft., BTOC): ____
Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: ____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) 25083 / 25742 / 49914 / 56500 / Other: ____
Beginning Water Level (DTW BTOC): 8.57 @ 16:07 Ending Water Level: 8.65
TD = 18.09 - 8.57 (DTW) = 9.52 (Ft. of water) x "K" = 1.6 (Gals./CV) x 3 (No. of CV) = 4.8 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm[c]) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/17/17	1623	1	20.28	1269	6.77	135	0.78	-95.3	Sheen on top of purge water
	1626	2	20.02	1191	6.81	24.2	0.96	-89.0	
	1630	3	19.96	1152	6.80	76.1	0.89	-77.5	
	1633	4	19.96	1194	6.79	282	0.87	-75.8	
	1635	5	19.92	1160	6.80	198	0.84	-73.7	
	1639	6	19.94	1168	6.81	309	0.89	-71.7	

Total Discharge: 6 Gallons 3.8 CV Removed
Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/17/17 @ 1642
Analysis: VOCs (8260B); TPH-D (8015M).
Notes: ____

QA/QC: None @ ____ as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **E-4** DATE: 10/19/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Overcast, 57°
Well Diameter: 1" (2") 4" 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) / No Bolt Size: Bolts missing (9/16") | Type of lock / Lock number: No lock
Screen Interval (Ft., BTOC): _____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: NA / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) Cleaned / Dedicated
Method of Cleaning Pump: NA / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 8.51 @ 906 Ending Water Level: 8.54
TD = 18.20 - 8.51 (DTW) = 9.69 (Ft. of water) x "K" = 1.6 (Gals./CV) x 3 (No. of CV) = 4.8 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/19/17	0911	1	19.76	1004	6.83	80.2	1.10	-53.3	light petroleum hydrocarbon odor & sheen on purge water
	0915	2	20.20	954	6.89	201	1.23	-72.9	
	0918	3	20.06	945	6.94	341	1.20	-79.4	
	0921	4	20.13	948	6.95	476	1.32	-71.7	
	0924	5	20.19	926	6.92	239	1.20	-70.6	

Total Discharge: 5 Gallons 3.1 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/19/17 @ 0927 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: None @ — as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **E-5** DATE: 10/17/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Cloudy, 74°
Well Diameter: 1" (2") 4" 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) / No Bolt Size: _____ | Type of lock / Lock number: Dolphin lock
Screen Interval (Ft., BTOC): _____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 8.56 @ 15:31 Ending Water Level: _____
TD = 18.30 - 8.56 (DTW) = 9.74 (Ft. of water) x "K" = 1.6 (Gals./CV) x 3 (No. of CV) = 4.8 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/17/17	15:41	1	20.50	1202	6.76	74.9	0.83	-77.3	Very light sheen on top of purge water
	15:44	2	20.22	1182	6.77	124	0.85	-81.4	
	15:47	3	20.19	1136	6.77	209	0.89	-79.6	
	15:50	4	20.17	1117	6.77	131	0.84	-75.8	
	15:53	5	20.17	1087	6.77	193	0.79	-71.1	
	15:56	6	20.17	1091	6.77	283	0.91	-68.6	

Total Discharge: 6 Gallons 3.8 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/17/17 @ 15:58 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: None @ _____ as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **E-6** DATE: 10/17/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Cloudy, 75°
Well Diameter: 1" (2") 4" 6" Other: ____ | Well Type: (PVC) / Stainless Steel / Other: ____
Is Well Secured? (Yes) / No Bolt Size: 9/16" | Type of lock / Lock number: Dolphin lock
Screen Interval (Ft., BTOC): ____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: ____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) / 25083 / 25742 / 49914 / 56500 / Other: ____
Beginning Water Level (DTW BTOC): 8.49 @ 14:47 Ending Water Level: 8.53
TD = 18.07 - 8.49 (DTW) = 9.58 (Ft. of water) x "K" = 1.6 (Gals./CV) x 3 (No. of CV) = 4.8 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/17/17	14:52	1	20.89	1095	6.88	517	1.09	-73.3	
	14:54	2	20.73	1099	6.87	558	1.03	-78.5	
	14:57	3	20.49	1061	6.88	777	0.93	-74.6	
	15:01	4	20.28	1017	6.92	586	1.63	-60.4	
	15:04	5	20.24	1002	6.89	380	1.07	-62.2	
↓	15:07	6	20.38	1034	6.89	974	1.41	-59.3	

Total Discharge: 6 Gallons 3.8 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/17/17 @ 15:10 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: ____

QA/QC: None @ ____ as a Duplicate (Equipment Blank) Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: E-7 DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Sunny, 67°
Well Diameter: 1" (2") 4" 6" Other: _____ | Well Type: (PVC) / Stainless Steel / Other: _____
Is Well Secured? (Yes) / No Bolt Size: 9/16" | Type of lock / Lock number: No lock
Screen Interval (Ft., BTOC): _____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: _____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) 25083 / 25742 / 49914 / 56500 / Other: _____
Beginning Water Level (DTW BTOC): 8.70 @ 1523 Ending Water Level: 8.68
TD = 18.10 - 8.70 (DTW) = 9.40 (Ft. of water) x "K" = 1.53 (Gals./CV) x 3 (No. of CV) = 4.6 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	1532	1	21.16	1441	6.91	232	1.03	-78.9	There is a light hydrocarbon odor
	1535	2	20.82	1449	6.89	279	1.30	-82.9	
	1539	3	20.72	1398	6.87	232	1.13	-78.1	
	1541	4	20.72	1408	6.86	265	1.18	-73.0	
	1544	5	20.68	1415	6.87	406	1.18	-70.0	

Total Discharge: 5 Gallons 3.3 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/18/17 @ 1546 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: _____

QA/QC: None @ _____ as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

6680 Alhambra Avenue, # 102 • Martinez, CA 94553-6105 • (925) 372-8108
www.envsampling.com

Environmental
Sampling Services, LLC

WATER QUALITY SAMPLE LOG SHEET | WELL IDENTIFICATION: **E-9** DATE: 10/18/2017

Project Name: Former Paco Pumps, Oakland, CA | Client: Apex Companies, LLC
Laboratory: Curtis & Tompkins, Ltd. (510) 204-2225 | Weather Conditions: Sunny, 63°
Well Diameter: 1" (2") 4" 6" Other: ____ | Well Type: (PVC) / Stainless Steel / Other: ____
Is Well Secured? (Yes) / No Bolt Size: 9/16" (Missing 10/17) | Type of lock / Lock number: No lock
Screen Interval (Ft., BTOC): ____ | Set pump intake @ NA (Ft., BTOC) / Top of Wtr. Column
Purge Method: NA (Disp. PE Bailer) Centrifugal Pump Peristaltic Pump Bladder Pump SS Submersible Pump
Purge Tubing: (NA) / PE / Teflon / Other - New / Cleaned / Dedicated Bailer Line: NA (New) / Cleaned / Dedicated
Method of Cleaning Pump: (NA) / Liqui-nox / Tap Water / DI Rinse / Other: ____
Sampling Method: (Disp. PE Bailer) Peristaltic Pump Bladder Pump SS Submersible Pump PDBs
Multi-Parameter Meter / Probe Serial No.: 556 MPS - 09C100611 / (556 MPS - 09C100612)
Equipment Calibration: See Daily Equipment Calibration Sheet OVM 580B P.I.D. Reading: NA ppm
Water Level Meter Serial No.: (OW 9371-1) 25083 / 25742 / 49914 / 56500 / Other: ____
Beginning Water Level (DTW BTOC): 8.50 @ 1429 Ending Water Level: 8.54
TD = 17.90 - 8.50 (DTW) = 9.4 (Ft. of water) x "K" = 1.53 (Gals./CV) x 3 (No. of CV) = 4.6 (Gals.)
"K" = 0.04 (1" well) ("K" = .163 (2" well)) "K" = 0.653 (4" well) "K" = 1.46 (6" well)

FIELD WATER QUALITY PARAMETERS

Date	Time	Discharge (Gallons)	Temp (°C) ± 1° C	Specific Conductivity (µS/cm^c) ± 10%	pH (SU) ± 0.1 SU	Turbidity (NTUs)	D.O. (mg/L)	O.R.P. (mV)	Observations
10/18/17	1434	1	21.51	1229	6.67	395	0.71	-91.3	Moderate petroleum hydrocarbon odor shown on purgewater
	1437	2	20.86	1239	6.71	301	0.65	-100.3	
	1439	3	20.66	1222	6.71	119	0.96	-97.5	
	1442	4	20.59	1206	6.70	158	0.86	-94.3	
	1444	5	20.55	1192	6.70	162	0.91	-90.6	

Total Discharge: 5 Gallons 3.3 CV Removed | Disposal of discharged water: 55 Gallon Drum(s)
Date / Time Sampled: 10/18/17 @ 1447 | Analysis: VOCs (8260B); TPH-D (8015M).
Notes: ____

QA/QC: None @ ____ as a Duplicate Equipment Blank Field Blank MS/MSD
Recorded by: Stephen Penman Signature: [signature]

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www.envsampling.com

Environmental
Sampling Services, LLC

Project Name: Former Paco Pumps
Project Address: 9201 San Leandro Street, Oakland, California
Task: October 2017 Groundwater Monitoring Event

DAILY EQUIPMENT CALIBRATION SHEET

Date	Time	Instrument Serial Number	Probe Serial Number	Dissolved Oxygen (%)	pH			Specific Conductivity (1,000 µs/cm°)	ORP (231 mV)	Turbidity (0.02 NTU)
					4	7	10			
10/17/17	8:50	556 MPS	09C100612	100.0	3.99	7.00	10.00	1,000	231.0	0.02
10/18/17	8:22	556 MPS	09C100612	100.0	4.00	7.00	10.00	1,000	231.0	0.02
10/19/17	8:46	556 MPS	09C100612	100.0	4.00	7.00	10.00	1,000	230.9	0.02

293579

Environmental Sampling Services, LLC

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Martinez, California 94553-6105
Telephone: (925) 372-8108
Log Code: ESSM www.envsampling.com

CHAIN OF CUSTODY RECORD

Page 1 of 2

TURN AROUND TIME ☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☑ Normal Other:

LABORATORY: Curtis & Tompkins, Ltd.
Berkeley, CA

Report To:	Jake Wilcox	**Telephone:**	(925) 951-6387
Company:	Apex Companies, LLC	**Fax:**	NA
Address:	3478 Buskirk Avenue, Suite 100 Pleasant Hill, CA 94523	**Project Name:**	Former Paco Pumps
		Project Number:	04-PFT-005
E-Mail:	Jacob.Wilcox@apexcos.com	**Bill To:**	SAME
Sampler(s):	Stephen Penman ☑	**Sampler's Signature:**	

GeoTracker No.: NA

Reporting Requirement: Hard Copy : Yes ☐ No ☑
EDD File: Yes ☑ No ☐ Electronic (EDF) : Yes ☐ No ☑

	SAMPLE ID	Sample Date	Sample Time	Number of Containers	Type of Container[1]	Matrix: Groundwater	Soil	Soil Vapor	Water	Other	Preservative: Ice	HCl	HNO_3	H_2SO_4	Analysis Request: VOCs (EPA 8260B)	TPH-d (8015M)	PCBs (8082)	Field Filtered (FF)	Comments
1	TB-1	10/17/17	9:05	3	1				X		X	X			X				
2	MW-4	10/17/17	13:10	5	1,2	X					X	X			X	X			
3	E-2	10/17/17	14:25	5	1,2	X					X	X			X	X			
4	E-6	10/17/17	15:10	5	1,2	X					X	X			X	X			
5	E-5	10/17/17	15:58	5	1,2	X					X	X			X	X			
6	E-3	10/17/17	16:42	5	1,2	X					X	X			X	X			
7	MW-7	10/18/17	9:10	5	1,2	X					X	X			X	X			
8	MW-6	10/18/17	10:14	5	1,2	X					X	X			X	X			
9	AS-1D	10/18/17	1118	5	1,2	X					X	X			X	X			
10	AS-1S	10/18/17	1155	5	1,2	X					X	X			X	X			
11	ASMW-2S	10/18/17	1246	5	1,2	X					X	X			X	X			

	Date	Time	Received By:
Relinquished By:	10/18/17	1838	Received By: 10-19-17 0935
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

1 = Sample Container Type: 1 =VOA 2=Glass 3=Plastic 4=Summa Canister

QUESTIONS REGARDING COC, CALL ESS

Please email COC for confirmation to:
Jacob.Wilcox@apexcos.com; spen@envsampling.com

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ NA

293579

Environmental Sampling Services, LLC

6680 Alhambra Ave., #102
Martinez, California 94553-6105
Telephone: (925) 372-8108
Log Code: ESSM www.envsampling.com

CHAIN OF CUSTODY RECORD

TURN AROUND TIME Other:

LABORATORY: Curtis & Tompkins, Ltd. Berkeley, CA

☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☑ Normal

Report To: Jake Wilcox Telephone: (925) 951-6387
Company: Apex Companies, LLC Fax: NA
Address: 3478 Buskirk Avenue, Suite 100 Project Name: Former Paco Pumps
Pleasant Hill, CA 94523 Project Number: 04-PFT-005
E-Mail: Jacob.Wilcox@apexcos.com Bill To: SAME
Sampler(s): Stephen Penman ☑ Sampler's Signature:

GeoTracker No.: NA
Reporting Requirement: Hard Copy : Yes ☐ No ☑
EDD File: Yes ☑ No ☐ Electronic (EDF) : Yes ☐ No ☑

	SAMPLE ID	Sample Date	Sample Time	Number of Containers	Type of Container[1]	Matrix: Groundwater	Soil	Soil Vapor	Water	Other	Preservative: Ice	HCl	HNO_3	H_2SO_4	Analysis Request: VOCs (EPA 8260B)	TPH-d (8015M)	PCBs (8082)	Field Filtered (FF)	Comments
12	ASMW-2D	10/18/17	1345	5	1,2	X					X	X			X	X			
13	DUP-1	10/18/17	1415	5	1,2	X					X	X			X	X			
14	E-9	10/18/17	1447	5	1,2	X					X	X			X	X			
15	E-7	10/18/17	1546	5	1,2	X					X	X			X	X			
16	MW-12	10/18/17	1634	5	1,2	X					X	X			X	X			
17	E-1	10/18/17	1720	5	1,2	X					X	X			X	X			

Relinquished By:	Date:	Time:	Received By:
	10/18/17	1838	10-19-17 0935
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

1 = Sample Container Type: 1 =VOA 2=Glass 3=Plastic 4=Summa Canister

QUESTIONS REGARDING COC, CALL ESS

Please email COC for confirmation to:
Jacob.Wilcox@apexcos.com; spen@envsampling.com

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ NA

CHAIN OF CUSTODY RECORD

Page 1 of 1

Environmental Sampling Services, LLC

6680 Alhambra Ave., #102
Martinez, California 94553-6105
Telephone: (925) 372-8108
Log Code: ESSM www.envsampling.com

TURN AROUND TIME — Other:

LABORATORY:	☐ 24 Hours	☐ 48 Hours	☐ 1 Week	☑ Normal
Curtis & Tompkins, Ltd. Berkeley, CA				

Report To: Jake Wilcox **Telephone:** (925) 951-6387
Company: Apex Companies, LLC **Fax:** NA
Address: 3478 Buskirk Avenue, Suite 100 **Project Name:** Former Paco Pumps
Pleasant Hill, CA 94523 **Project Number:** 04-PFT-005
E-Mail: Jacob.Wilcox@apexcos.com **Bill To:** SAME
Sampler(s): Stephen Penman ☑ **Sampler's Signature:**

GeoTracker No.: NA
Reporting Requirement: Hard Copy : Yes ☐ No ☑
EDD File: Yes ☑ No ☐ Electronic (EDF) : Yes ☐ No ☑

SAMPLE ID	Sample Date	Sample Time	Number of Containers	Type of Container[1]	Matrix: Groundwater	Soil	Soil Vapor	Water	Other	Preservative: Ice	HCl	HNO_3	H_2SO_4	VOCs (EPA 8260B)	TPH-d (8015M)	PCBs (8082)	Field Filtered (FF)	Comments
TB-2	10/19/17	0830	3	1				X		X	X			X				
E-4	10/19/17	0927	5	1,2	X					X	X			XX				
MW-1	10/19/17	1018	5	1,2	X					X	X			XX				
MW-5	10/19/17	1058	5	1,2	X					X	X			XX				
DUP-2	10/19/17	1130	5	1,2	X					X	X			XX				
MW-11	10/19/17	1150	6	1,2	X					X	X			XXX				
MW-10	10/19/17	1233	6	1,2	X					X	X			XXX				
MW-9	10/19/17	1342	5	1,2	X					X	X			XX				
MW-2	10/19/17	1432	5	1,2	X					X	X			XX				

Relinquished By:	Date:	Time:	Received By:
	10/19/17	1615	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

1 = Sample Container Type: 1 =VOA 2=Glass 3=Plastic 4=Summa Canister

QUESTIONS REGARDING COC, CALL ESS

Please email COC for confirmation to:
Jacob.Wilcox@apexcos.com; spen@envsampling.com

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ NA

APPENDIX B

LABORATORY ANALYTICAL DATA

ENTHALPY

ANALYTICAL

Enthalpy Analytical
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 293579
ANALYTICAL REPORT

Apex Compaines, LLC.
3478 Buskirk Ave
Pleasant Hill, CA 94523

Project : 04-PFT-005
Location : Former Paco Pumps
Level : II

Sample ID	Lab ID
TB-1	293579-001
MW-4	293579-002
E-2	293579-003
E-6	293579-004
E-5	293579-005
E-3	293579-006
MW-7	293579-007
MW-6	293579-008
AS-1D	293579-009
AS-1S	293579-010
ASMW-2S	293579-011
ASMW-2D	293579-012
DUP-1	293579-013
E-9	293579-014
E-7	293579-015
MW-12	293579-016
E-1	293579-017

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

Signature: _____ Date: 10/30/2017

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**293579**
Client:	**Apex Compaines, LLC.**
Project:	**04-PFT-005**
Location:	**Former Paco Pumps**
Request Date:	**10/19/17**
Samples Received:	**10/19/17**

This data package contains sample and QC results for seventeen water samples, requested for the above referenced project on 10/19/17. The samples were received cold and intact. Report revised 11/6/17 to add motor oil.

TPH-Extractables by GC (EPA 8015B):
E-9 (lab # 293579-014) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

293579

Environmental Sampling Services, LLC

6680 Alhambra Ave., #102
Martinez, California 94553-6105
Telephone: (925) 372-8108
Log Code: ESSM www.envsampling.com

CHAIN OF CUSTODY RECORD

Page 1 of 2

TURN AROUND TIME Other:

☐ 24 Hours	☐ 48 Hours	☐ 1 Week	☑ Normal

LABORATORY: Curtis & Tompkins, Ltd.
Berkeley, CA

Report To: Jake Wilcox Telephone: (925) 951-6387
Company: Apex Companies, LLC Fax: NA
Address: 3478 Buskirk Avenue, Suite 100 Project Name: Former Paco Pumps
Pleasant Hill, CA 94523 Project Number: 04-PFT-005
E-Mail: Jacob.Wilcox@apexcos.com Bill To: SAME
Sampler(s): Stephen Penman ☑ Sampler's Signature:

GeoTracker No.: NA
Reporting Requirement: Hard Copy : Yes ☐ No ☑
EDD File: Yes ☑ No ☐ Electronic (EDF) : Yes ☐ No ☑

	SAMPLE ID	Sample Date	Sample Time	Number of Containers	Type of Container[1]	Matrix: Groundwater	Soil	Soil Vapor	Water	Other	Preservative: Ice	HCl	HNO_3	H_2SO_4	VOCs (EPA 8260B)	TPH-d (8015M)	PCBs (8082)	Field Filtered (FF)	Comments
1	TB-1	10/17/17	9:05	3	1				X		X	X			X				
2	MW-4	10/17/17	13:10	5	1,2	X					X	X			X	X			
3	E-2	10/17/17	14:25	5	1,2	X					X	X			X	X			
4	E-6	10/17/17	15:10	5	1,2	X					X	X			X	X			
5	E-5	10/17/17	15:58	5	1,2	X					X	X			X	X			
6	E-3	10/17/17	16:42	5	1,2	X					X	X			X	X			
7	MW-7	10/18/17	9:18	5	1,2	X					X	X			X	X			
8	MW-6	10/18/17	10:14	5	1,2	X					X	X			X	X			
9	AS-1D	10/18/17	1118	5	1,2	X					X	X			X	X			
10	AS-1S	10/18/17	1155	5	1,2	X					X	X			X	X			
11	ASMW-2S	10/18/17	1246	5	1,2	X					X	X			X	X			

Relinquished By:	Date:	Time:	Received By:
	10/18/17	1838	10-19-17 0935
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

1 = Sample Container Type: 1 =VOA 2=Glass 3=Plastic 4=Summa Canister

QUESTIONS REGARDING COC, CALL ESS

Please email COC for confirmation to:
Jacob.Wilcox@apexcos.com; spen@envsampling.com

SAMPLE RECEIPT

☐ Intact ☐ Cold
☐ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ NA

293579

Environmental Sampling Services, LLC

6680 Alhambra Ave., #102
Martinez, California 94553-6105
Telephone: (925) 372-8108
Log Code: ESSM www.envsampling.com

CHAIN OF CUSTODY RECORD

TURN AROUND TIME — Other:

LABORATORY: Curtis & Tompkins, Ltd. Berkeley, CA

☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☑ Normal

Report To:	Jake Wilcox	**Telephone:**	(925) 951-6387
Company:	Apex Companies, LLC	**Fax:**	NA
Address:	3478 Buskirk Avenue, Suite 100 Pleasant Hill, CA 94523	**Project Name:**	Former Paco Pumps
		Project Number:	04-PFT-005
E-Mail:	Jacob.Wilcox@apexcos.com	**Bill To:**	SAME
Sampler(s):	Stephen Penman ☑	**Sampler's Signature:**	

GeoTracker No.: NA

Reporting Requirement: Hard Copy : Yes ☐ No ☑

EDD File: Yes ☑ No ☐ Electronic (EDF) : Yes ☐ No ☑

Analysis Request

	SAMPLE ID	Sample Date	Sample Time	Number of Containers	Type of Container[1]	Matrix: Groundwater	Soil	Soil Vapor	Water	Other	Preservative: Ice	HCl	HNO_3	H_2SO_4	VOCs (EPA 8260B)	TPH-d (8015M)	PCBs (8082)	Field Filtered (FF)	Comments
12	ASMW-2D	10/18/17	1345	5	1,2	X					X	X			X	X			
13	DUP-1	10/18/17	1415	5	1,2	X					X	X			X	X			
14	E-9	10/18/17	1447	5	1,2	X					X	X			X	X			
15	E-7	10/18/17	1546	5	1,2	X					X	X			X	X			
16	MW-12	10/18/17	1634	5	1,2	X					X	X			X	X			
17	E-1	10/18/17	1720	5	1,2	X					X	X			X	X			

	Date	Time		
Relinquished By:	10/18/17	1838	Received By:	10-19-17 0935
Relinquished By:			Received By:	
Relinquished By:			Received By:	

1 = Sample Container Type: 1 =VOA 2=Glass 3=Plastic 4=Summa Canister

QUESTIONS REGARDING COC, CALL ESS

Please email COC for confirmation to:
Jacob.Wilcox@apexcos.com; spen@envsampling.com

SAMPLE RECEIPT

☐ Intact ☐ Cold
☐ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ NA

COOLER RECEIPT CHECKLIST

ENTHALPY
Berkeley

Login # 293579 Date Received 10-19-17 Number of coolers 2
Client Apex Project Former Paco Pumps

Date Opened 10-19-17 By (print) bp (sign) bp
Date Logged in 10-19-17 By (print) TT (sign) TT
Date Labelled _____ By (print) TT (sign) TT

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

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.8, 1.0

☑ Temperature blank(s) included? ☐ Thermometer# _____ ☐ IR Gun# A

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are there any missing / extra samples? _____ YES NO
11. Are samples in the appropriate containers for indicated tests? _____ YES NO
12. Are sample labels present, in good condition and complete? _____ YES NO
13. Do the sample labels agree with custody papers? _____ YES NO
14. Was sufficient amount of sample sent for tests requested? _____ YES NO
15. Are the samples appropriately preserved? _____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A
17. Did you document your preservative check? (pH strip lot# _____) YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS _____

20) sample 1 - 2/3 VOAs arrived containing bubbles

Rev 14, 8/01/17

ENTHALPY ANALYTICAL

Detections Summary for 293579

Results for any subcontracted analyses are not included in this summary.

Client : Apex Compaines, LLC.
Project : 04-PFT-005
Location : Former Paco Pumps

Client Sample ID : TB-1 Laboratory Sample ID : 293579-001

No Detections

Client Sample ID : MW-4 Laboratory Sample ID : 293579-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Benzene	0.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : E-2 Laboratory Sample ID : 293579-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	980	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	2,700		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

Client Sample ID : E-6 Laboratory Sample ID : 293579-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1,800	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	3,900		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Benzene	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Ethylbenzene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Isopropylbenzene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Propylbenzene	1.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
tert-Butylbenzene	1.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : E-5 Laboratory Sample ID : 293579-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	8,600	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	24,000		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

Client Sample ID : E-3 Laboratory Sample ID : 293579-006

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	42,000	Y	490	ug/L	As Recd	10.00	EPA 8015B	EPA 3520C
Motor Oil C24-C36	160,000		2,900	ug/L	As Recd	10.00	EPA 8015B	EPA 3520C
Benzene	1.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : MW-7 Laboratory Sample ID : 293579-007

No Detections

Client Sample ID : MW-6 Laboratory Sample ID : 293579-008

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	2,500	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
1,2-Dichloroethane	2.6		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B
Benzene	320		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B
Toluene	6.2		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B
Ethylbenzene	12		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B
m,p-Xylenes	8.8		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B
Isopropylbenzene	5.1		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B
Propylbenzene	13		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B
tert-Butylbenzene	3.3		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B
n-Butylbenzene	4.4		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B

Client Sample ID : AS-1D Laboratory Sample ID : 293579-009

No Detections

Client Sample ID : AS-1S Laboratory Sample ID : 293579-010

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	3,000	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	560		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Benzene	2,500		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B
Toluene	33		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B
Ethylbenzene	350		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B
m,p-Xylenes	160		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B
o-Xylene	91		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B
Isopropylbenzene	57		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B
Propylbenzene	160		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B
1,3,5-Trimethylbenzene	140		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B
1,2,4-Trimethylbenzene	430		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B
Naphthalene	200		17	ug/L	As Recd	33.33	EPA 8260B	EPA 5030B

Client Sample ID : ASMW-2S Laboratory Sample ID : 293579-011

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	8,800	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	320	Y	290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
1,2-Dichloroethane	2.3		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Benzene	130		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Toluene	1.4		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Ethylbenzene	13		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
m,p-Xylenes	7.0		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Isopropylbenzene	9.0		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Propylbenzene	29		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
1,3,5-Trimethylbenzene	22		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
tert-Butylbenzene	5.8		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
1,2,4-Trimethylbenzene	62		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
sec-Butylbenzene	6.3		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
para-Isopropyl Toluene	3.2		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
n-Butylbenzene	23		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Naphthalene	23		4.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B

Client Sample ID : ASMW-2D Laboratory Sample ID : 293579-012

No Detections

Client Sample ID : DUP-1 Laboratory Sample ID : 293579-013

No Detections

Client Sample ID : E-9 Laboratory Sample ID : 293579-014

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	27,000	Y	490	ug/L	As Recd	10.00	EPA 8015B	EPA 3520C
Benzene	810		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
Toluene	120		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
Ethylbenzene	270		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
m,p-Xylenes	550		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
o-Xylene	170		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
Isopropylbenzene	35		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
Propylbenzene	110		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
1,3,5-Trimethylbenzene	170		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
tert-Butylbenzene	9.3		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
1,2,4-Trimethylbenzene	640		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
sec-Butylbenzene	8.6		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
para-Isopropyl Toluene	5.1		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
n-Butylbenzene	18		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
Naphthalene	130		20	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B

Client Sample ID : E-7 Laboratory Sample ID : 293579-015

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	600	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	2,300		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
MTBE	0.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichloroethane	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Benzene	58		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Toluene	1.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Ethylbenzene	3.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
m,p-Xylenes	2.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
o-Xylene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Isopropylbenzene	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Propylbenzene	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
tert-Butylbenzene	1.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : MW-12 Laboratory Sample ID : 293579-016

No Detections

Client Sample ID : E-1 Laboratory Sample ID : 293579-017

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	270	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Benzene	48		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Toluene	12		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Ethylbenzene	5.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
m,p-Xylenes	4.4		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
o-Xylene	3.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Isopropylbenzene	2.3		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Propylbenzene	5.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,3,5-Trimethylbenzene	4.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
tert-Butylbenzene	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2,4-Trimethylbenzene	14		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
sec-Butylbenzene	0.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
n-Butylbenzene	2.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Naphthalene	4.3		2.0	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Y = Sample exhibits chromatographic pattern which does not resemble standard

ENTHALPY ANALYTICAL

Total Extractable Hydrocarbons

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Received:	10/19/17
Units:	ug/L		

Field ID:	MW-4	Batch#:	252859
Type:	SAMPLE	Sampled:	10/17/17
Lab ID:	293579-002	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	ND	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	111	51-134

Field ID:	E-2	Batch#:	252859
Type:	SAMPLE	Sampled:	10/17/17
Lab ID:	293579-003	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	980 Y	49
Motor Oil C24-C36	2,700	290

Surrogate	%REC	Limits
o-Terphenyl	104	51-134

Field ID:	E-6	Batch#:	252859
Type:	SAMPLE	Sampled:	10/17/17
Lab ID:	293579-004	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	1,800 Y	49
Motor Oil C24-C36	3,900	290

Surrogate	%REC	Limits
o-Terphenyl	105	51-134

Field ID:	E-5	Batch#:	252859
Type:	SAMPLE	Sampled:	10/17/17
Lab ID:	293579-005	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	8,600 Y	49
Motor Oil C24-C36	24,000	290

Surrogate	%REC	Limits
o-Terphenyl	105	51-134

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

ENTHALPY ANALYTICAL

Total Extractable Hydrocarbons

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Received:	10/19/17
Units:	ug/L		

Field ID:	E-3	Batch#:	252859
Type:	SAMPLE	Sampled:	10/17/17
Lab ID:	293579-006	Prepared:	10/19/17
Diln Fac:	10.00	Analyzed:	10/24/17

Analyte	Result	RL
Diesel C10-C24	42,000 Y	490
Motor Oil C24-C36	160,000	2,900

Surrogate	%REC	Limits
o-Terphenyl	DO	51-134

Field ID:	MW-7	Batch#:	252859
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-007	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	105	51-134

Field ID:	MW-6	Batch#:	252859
Type:	SAMPLE	Sampled:	10/17/17
Lab ID:	293579-008	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	2,500 Y	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	98	51-134

Field ID:	AS-1D	Batch#:	252859
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-009	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	ND	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	97	51-134

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

ENTHALPY ANALYTICAL

Total Extractable Hydrocarbons

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Received:	10/19/17
Units:	ug/L		

Field ID:	AS-1S	Batch#:	252859
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-010	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	3,000 Y	49
Motor Oil C24-C36	560	290

Surrogate	%REC	Limits
o-Terphenyl	101	51-134

Field ID:	ASMW-2S	Batch#:	252859
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-011	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	8,800 Y	49
Motor Oil C24-C36	320 Y	290

Surrogate	%REC	Limits
o-Terphenyl	93	51-134

Field ID:	ASMW-2D	Batch#:	252859
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-012	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	ND	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	97	51-134

Field ID:	DUP-1	Batch#:	252859
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-013	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	ND	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	98	51-134

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

ENTHALPY ANALYTICAL

Total Extractable Hydrocarbons

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Received:	10/19/17
Units:	ug/L		

Field ID:	E-9	Batch#:	252859
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-014	Prepared:	10/19/17
Diln Fac:	10.00	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	27,000 Y	490
Motor Oil C24-C36	ND	2,900

Surrogate	%REC	Limits
o-Terphenyl	DO	51-134

Field ID:	E-7	Batch#:	252883
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-015	Prepared:	10/20/17
Diln Fac:	1.000	Analyzed:	10/23/17

Analyte	Result	RL
Diesel C10-C24	600 Y	49
Motor Oil C24-C36	2,300	290

Surrogate	%REC	Limits
o-Terphenyl	103	51-134

Field ID:	MW-12	Batch#:	252883
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-016	Prepared:	10/20/17
Diln Fac:	1.000	Analyzed:	10/23/17

Analyte	Result	RL
Diesel C10-C24	ND	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	97	51-134

Field ID:	E-1	Batch#:	252883
Type:	SAMPLE	Sampled:	10/18/17
Lab ID:	293579-017	Prepared:	10/20/17
Diln Fac:	1.000	Analyzed:	10/23/17

Analyte	Result	RL
Diesel C10-C24	270 Y	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	96	51-134

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

ENTHALPY ANALYTICAL

Total Extractable Hydrocarbons

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Received:	10/19/17
Units:	ug/L		

Type:	BLANK	Batch#:	252859
Lab ID:	QC905650	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Analyte	Result	RL
Diesel C10-C24	ND	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	97	51-134

Type:	BLANK	Batch#:	252883
Lab ID:	QC905745	Prepared:	10/20/17
Diln Fac:	1.000	Analyzed:	10/23/17

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	91	51-134

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

ENTHALPY ANALYTICAL

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	252859
Units:	ug/L	Prepared:	10/19/17
Diln Fac:	1.000	Analyzed:	10/20/17

Type: BS Lab ID: QC905651

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,451	2,197	90	50-123

Surrogate	%REC	Limits
o-Terphenyl	101	51-134

Type: BSD Lab ID: QC905652

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,451	2,281	93	50-123	4	34

Surrogate	%REC	Limits
o-Terphenyl	104	51-134

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	252883
Units:	ug/L	Prepared:	10/20/17
Diln Fac:	1.000	Analyzed:	10/23/17

Type: BS Lab ID: QC905746

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,289	92	50-123

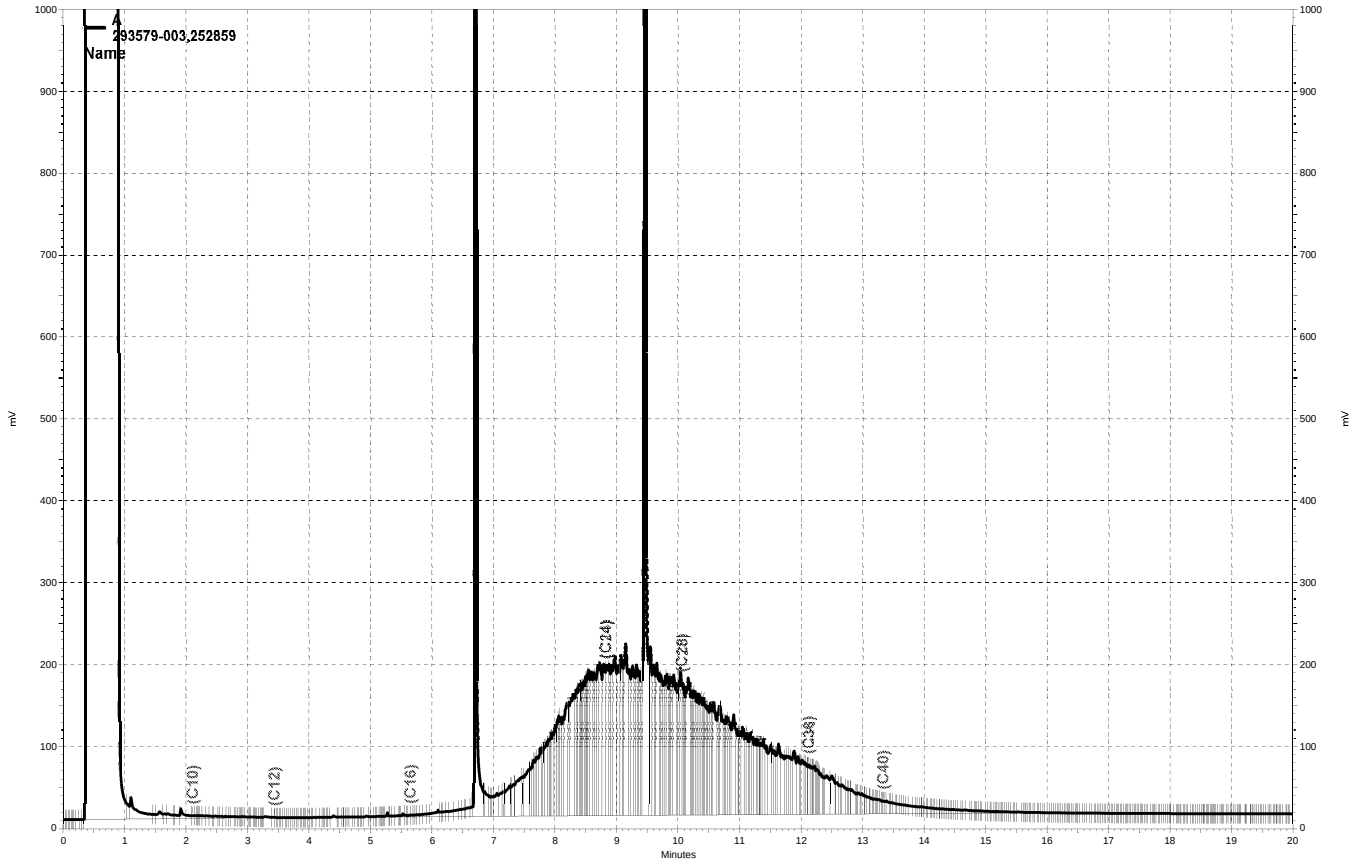
Surrogate	%REC	Limits
o-Terphenyl	100	51-134

Type: BSD Lab ID: QC905747

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,230	89	50-123	3	34

Surrogate	%REC	Limits
o-Terphenyl	99	51-134

RPD= Relative Percent Difference



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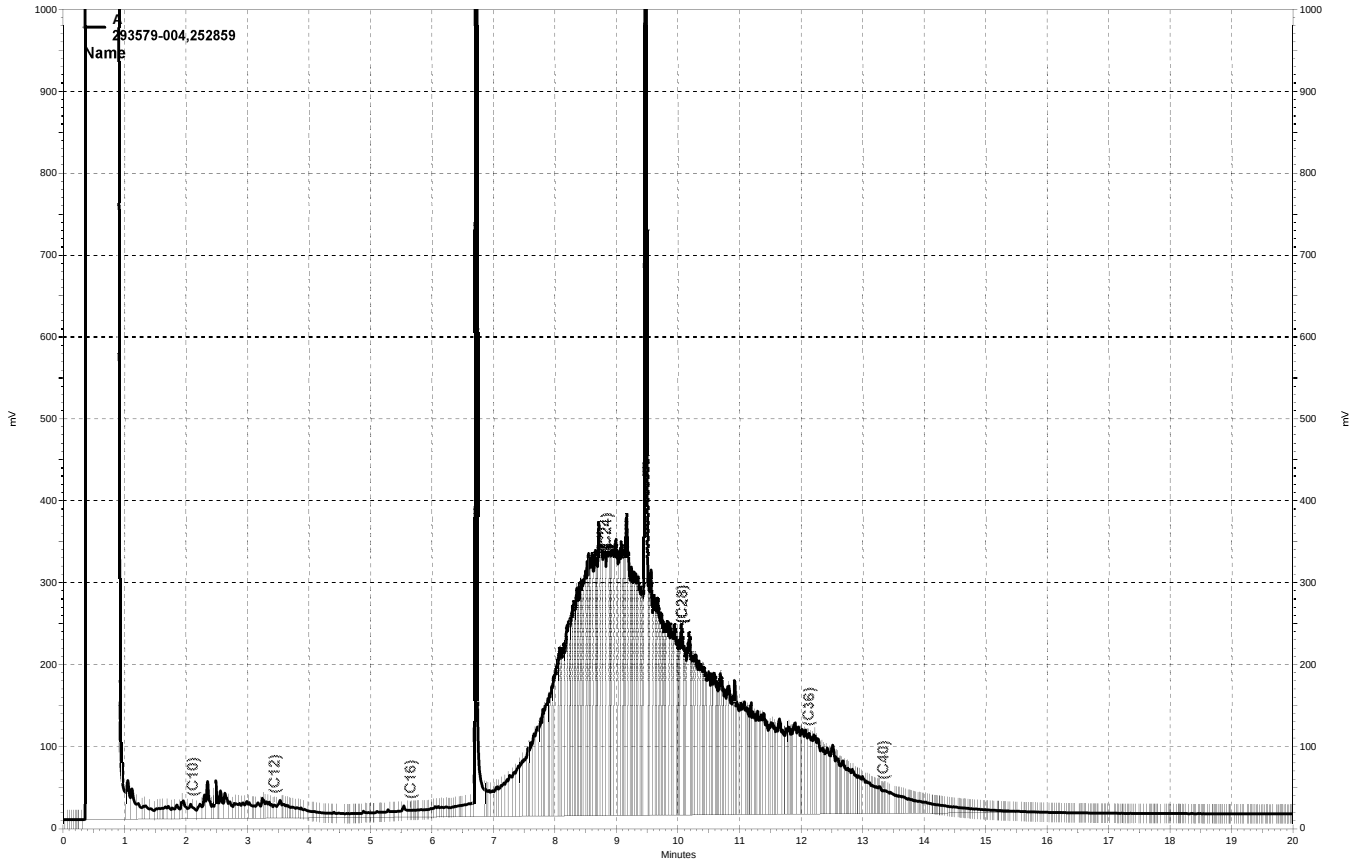

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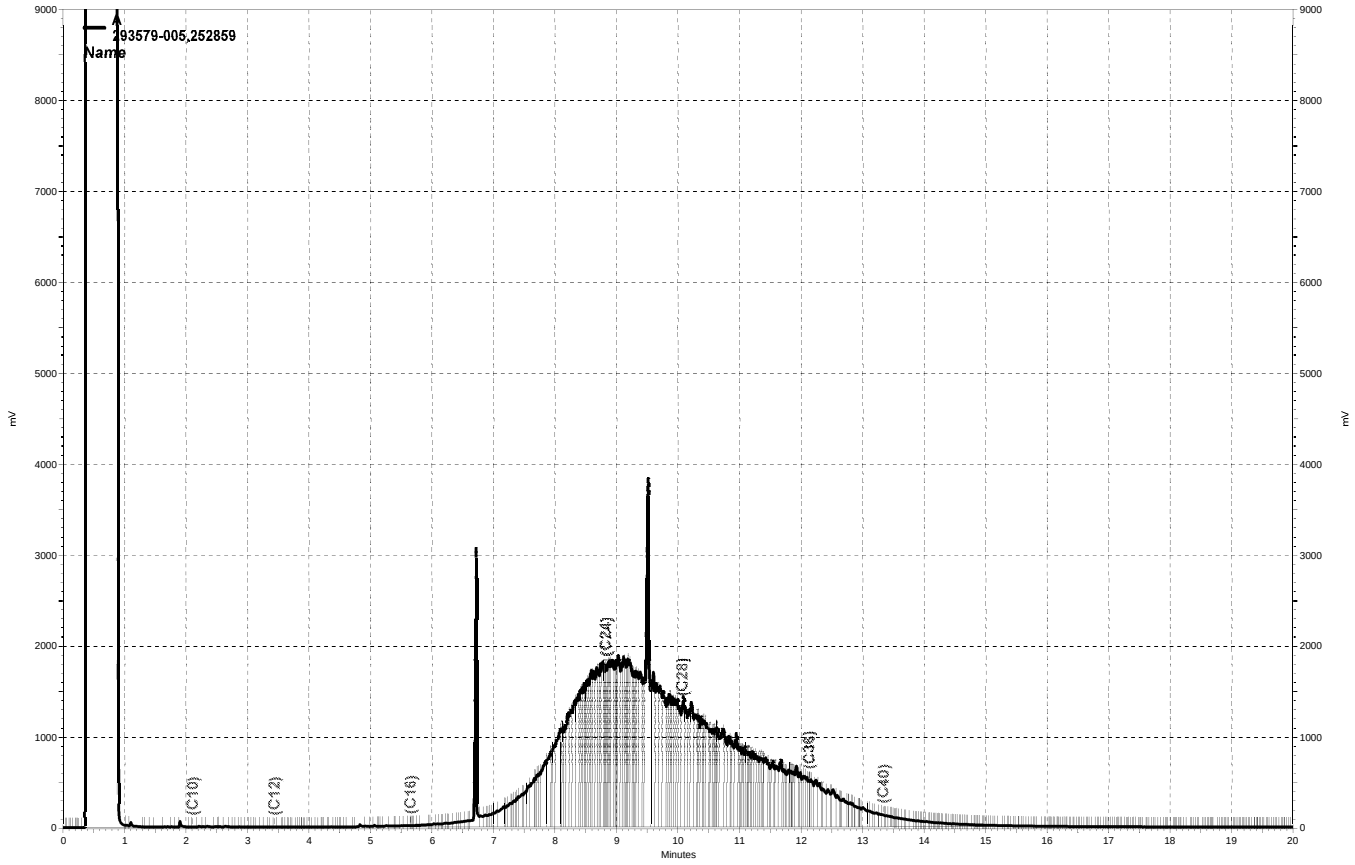

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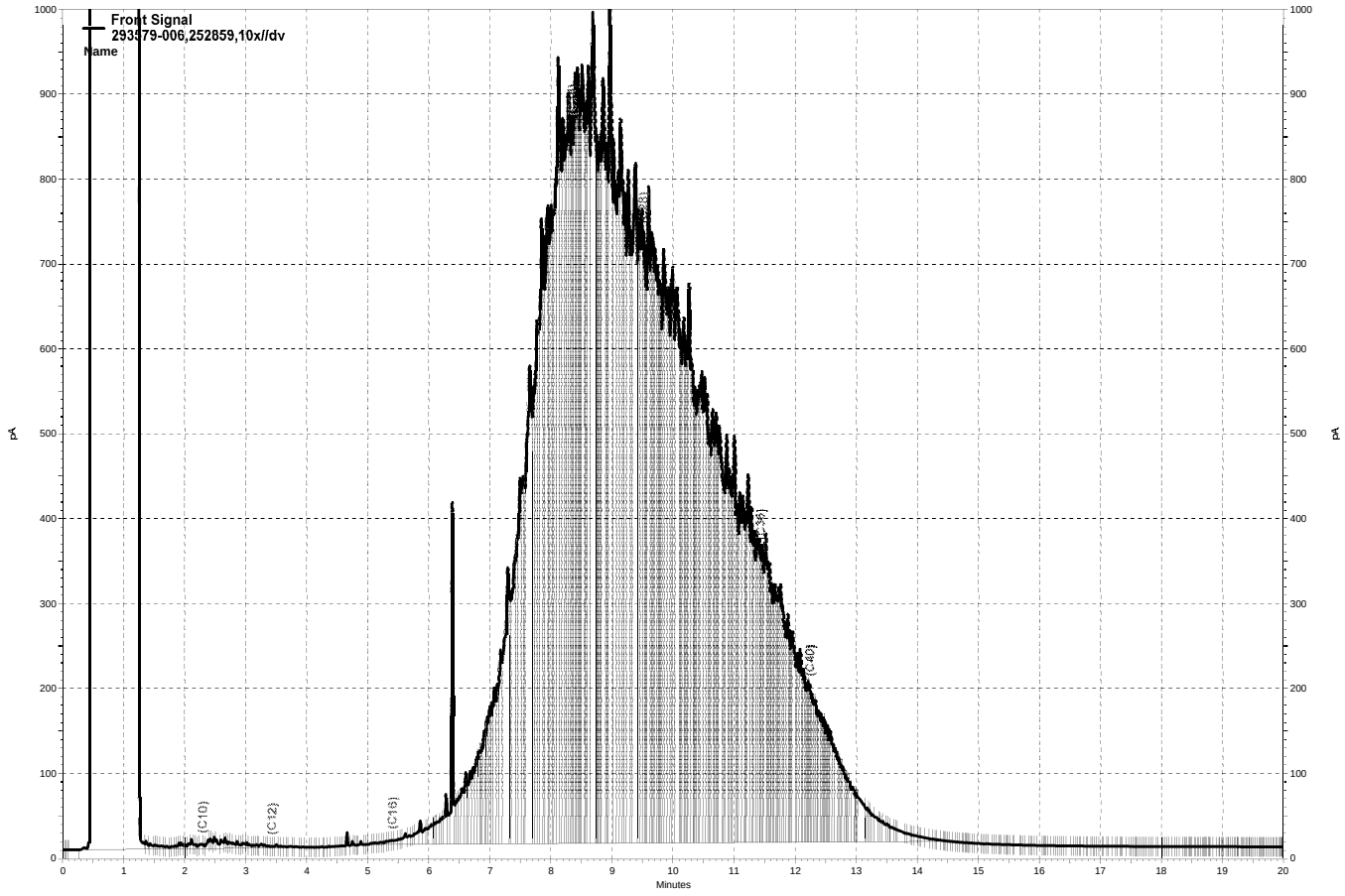

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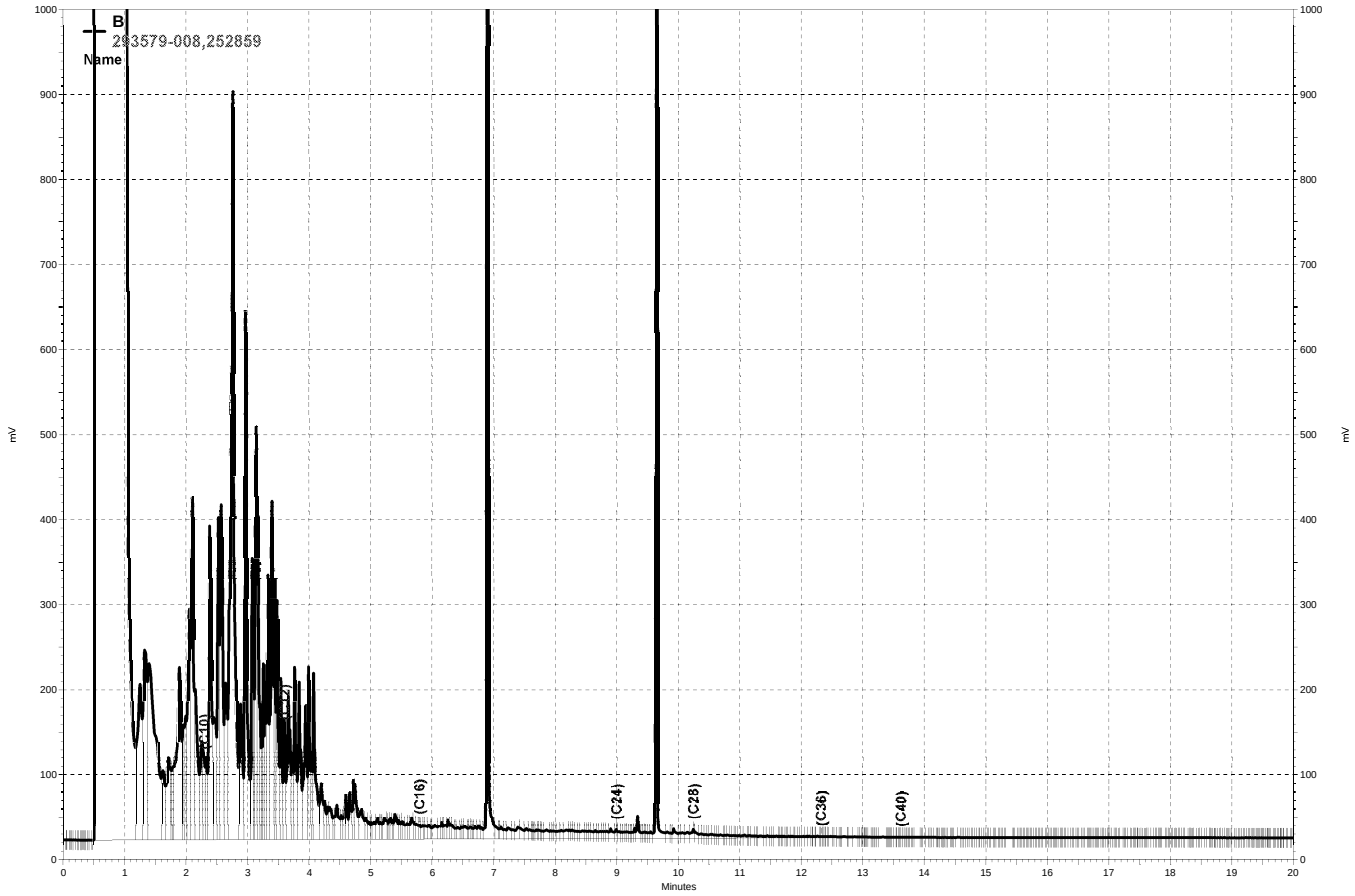

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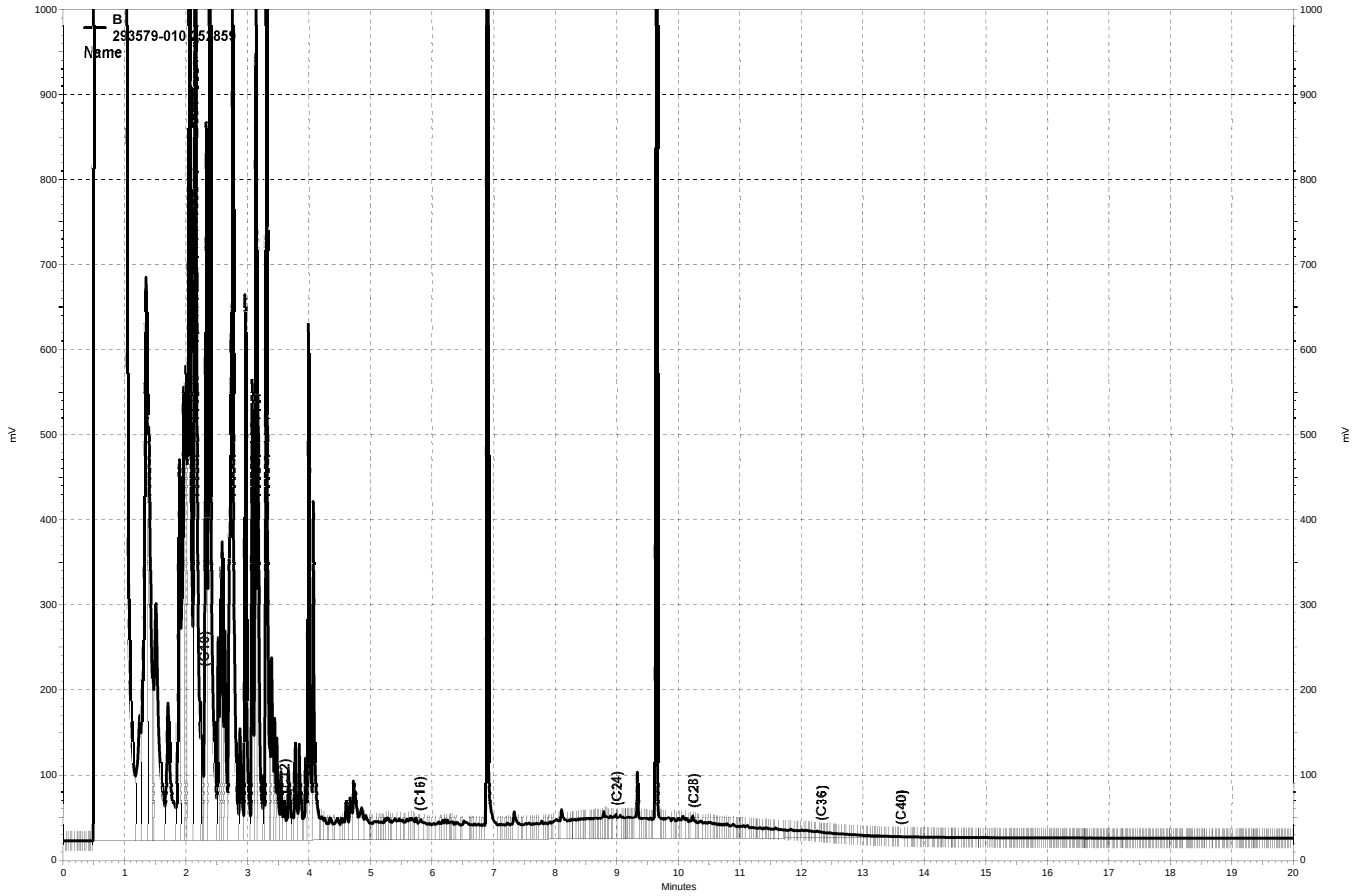

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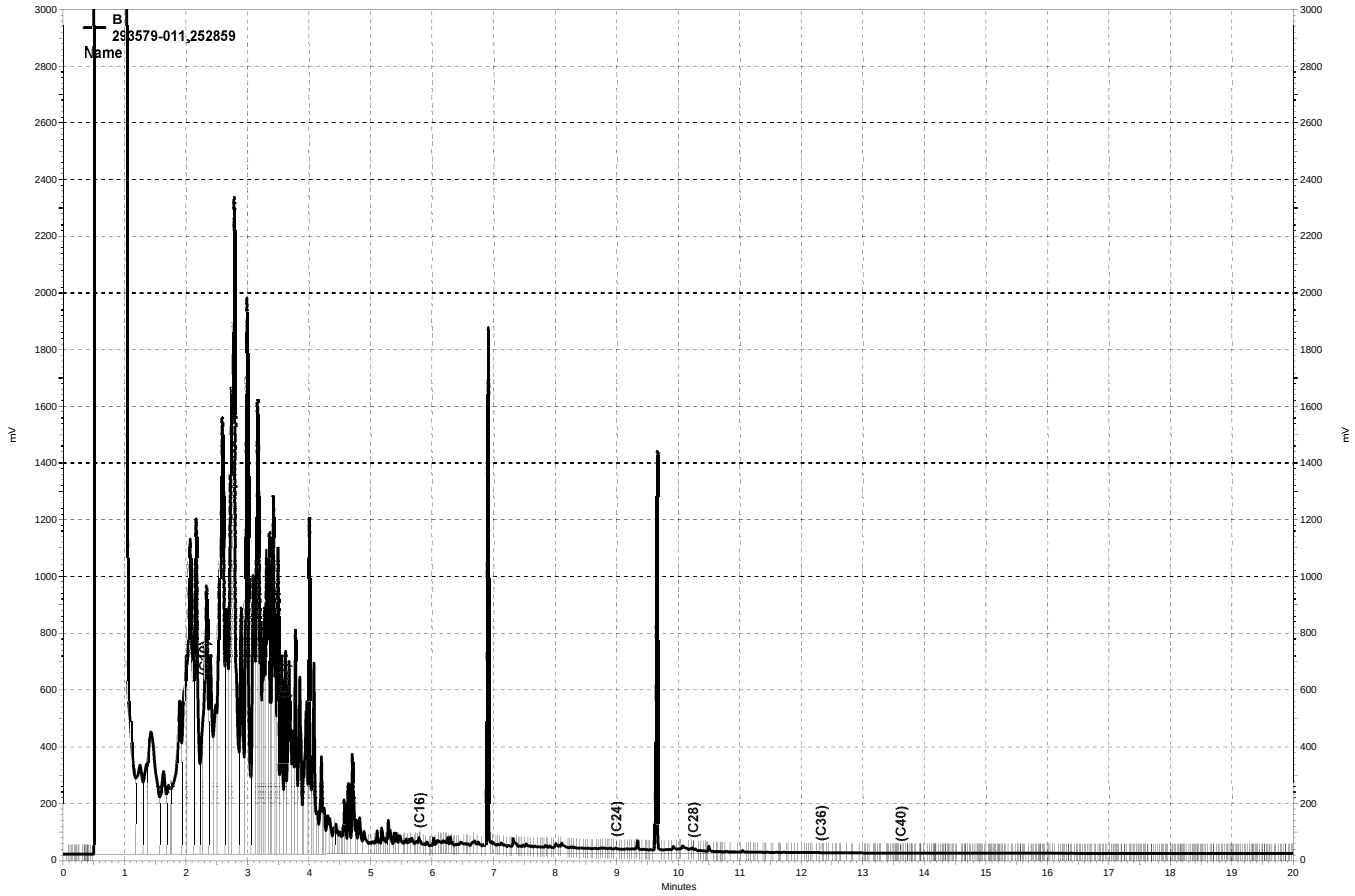

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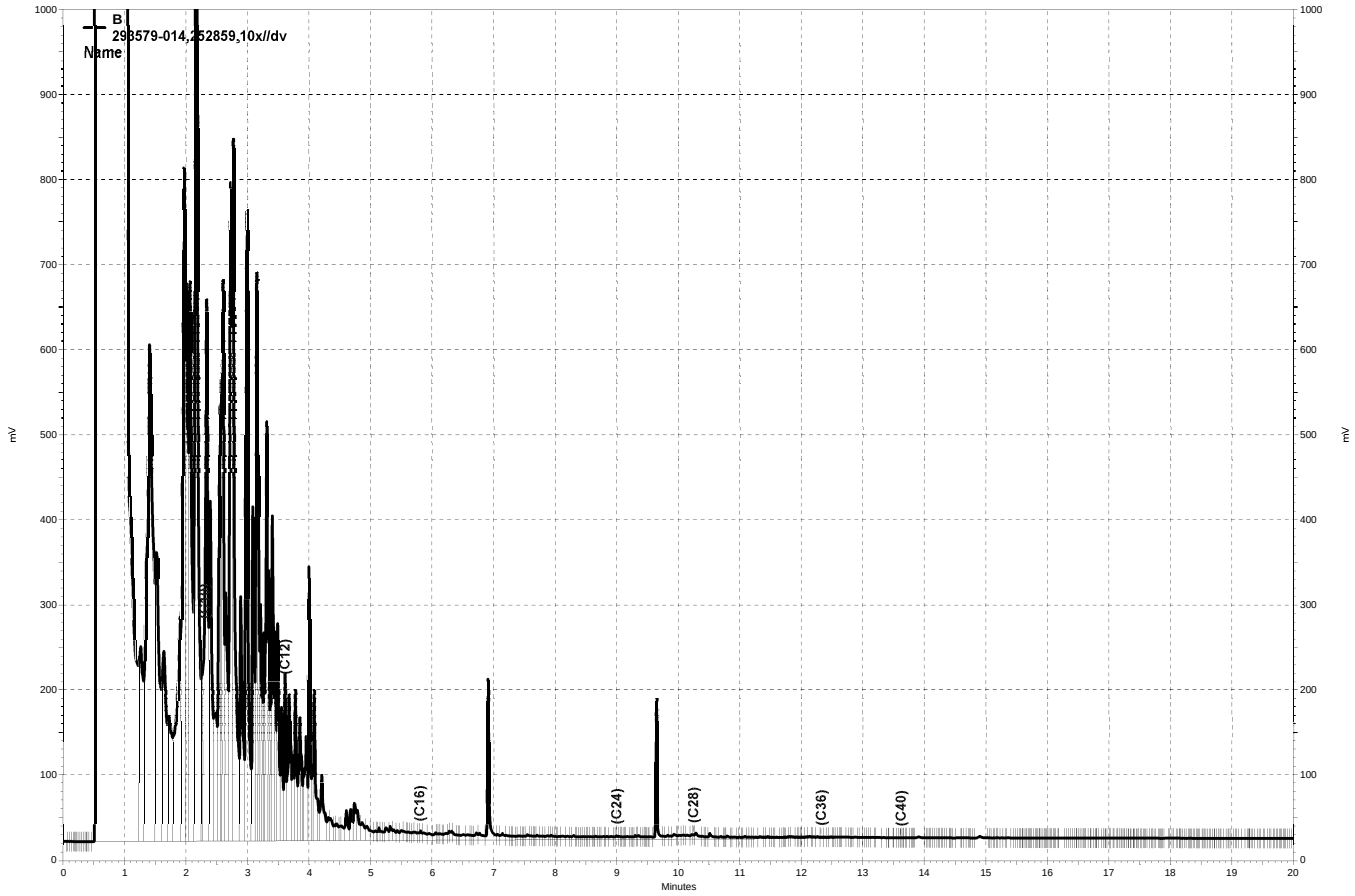

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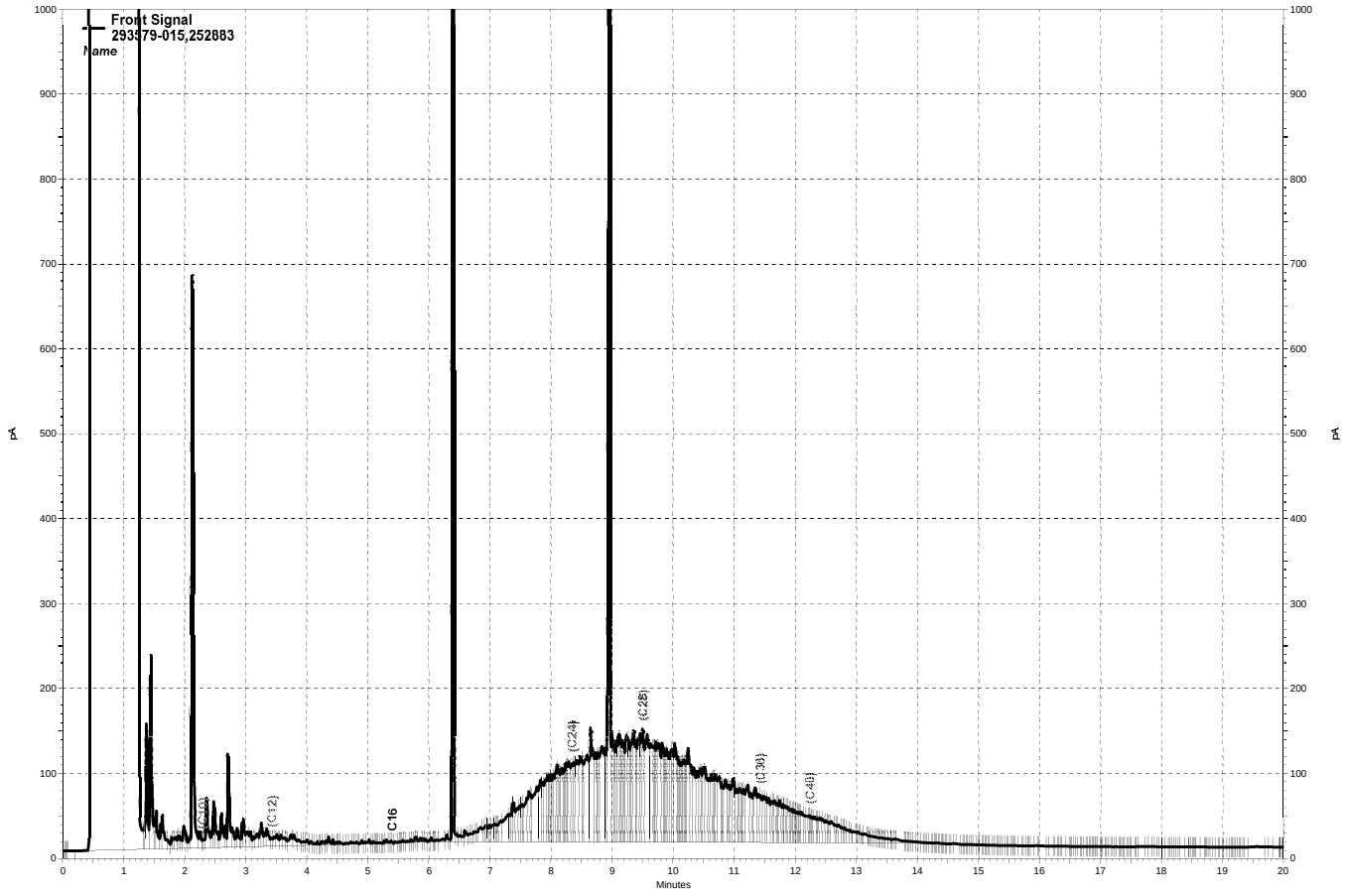

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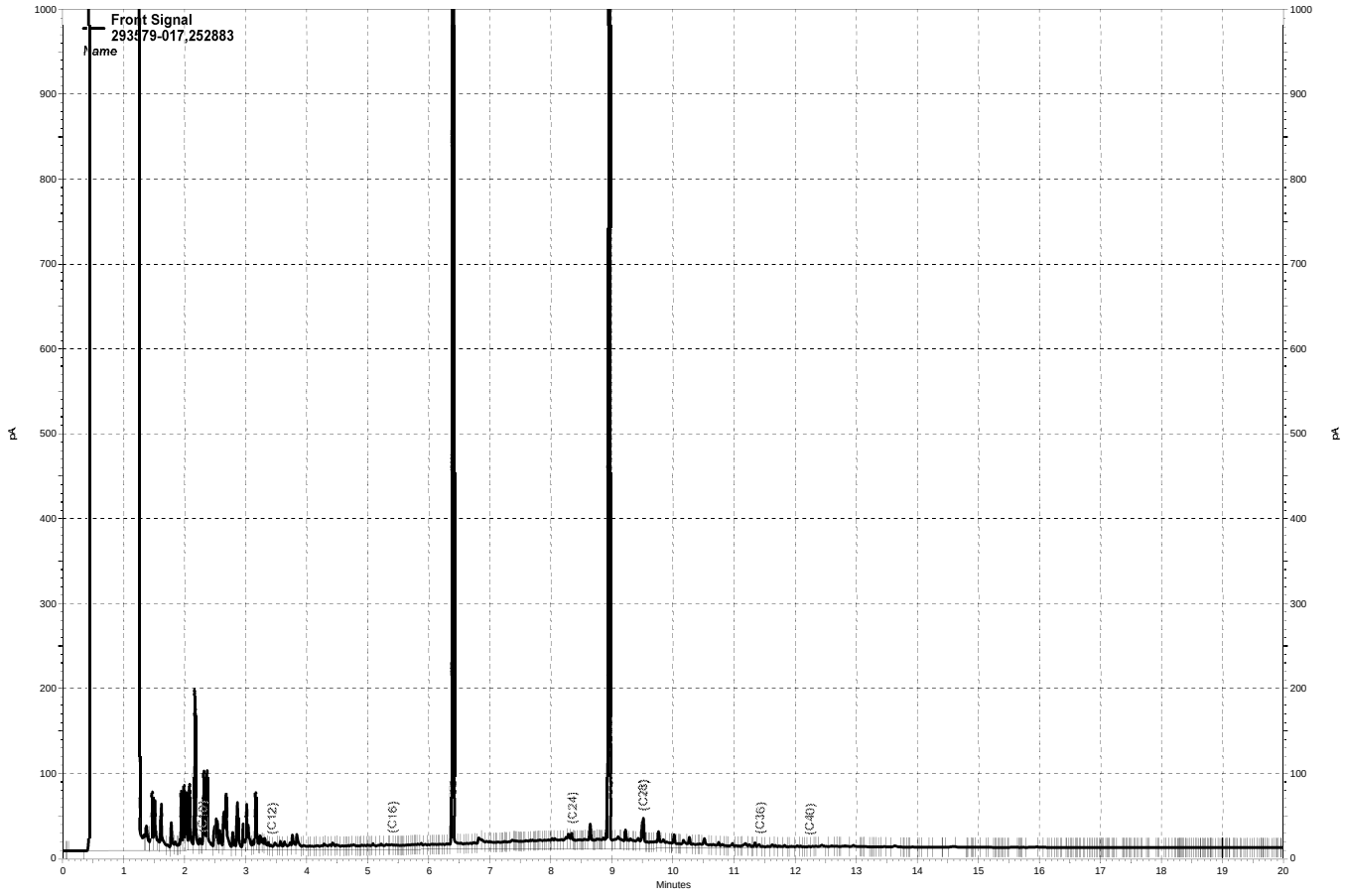

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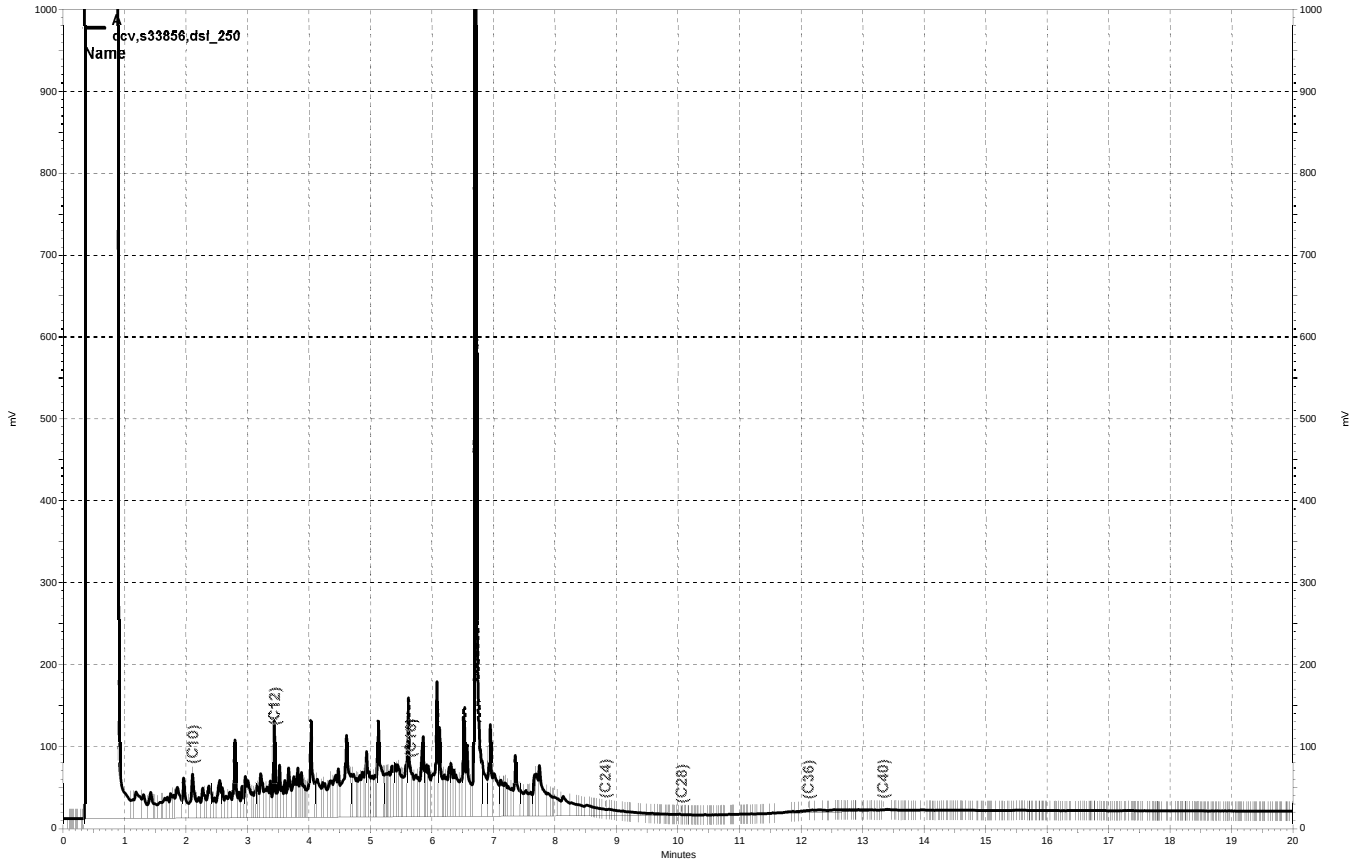

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ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	TB-1	Batch#:	252917
Lab ID:	293579-001	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	TB-1	Batch#:	252917
Lab ID:	293579-001	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	104	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	252917
Lab ID:	293579-002	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	0.8	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-4	Batch#:	252917
Lab ID:	293579-002	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	105	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-2	Batch#:	252917
Lab ID:	293579-003	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-2	Batch#:	252917
Lab ID:	293579-003	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	107	72-135
Toluene-d8	109	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-6	Batch#:	252934
Lab ID:	293579-004	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	0.6	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-6	Batch#:	252934
Lab ID:	293579-004	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	0.9	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	0.5	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	1.0	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	1.2	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-120
1,2-Dichloroethane-d4	102	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-5	Batch#:	252917
Lab ID:	293579-005	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-5	Batch#:	252917
Lab ID:	293579-005	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-3	Batch#:	252917
Lab ID:	293579-006	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	1.0	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-3	Batch#:	252917
Lab ID:	293579-006	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-7	Batch#:	252917
Lab ID:	293579-007	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-7	Batch#:	252917
Lab ID:	293579-007	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	102	72-135
Toluene-d8	111	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	252934
Lab ID:	293579-008	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	5.000		

Analyte	Result	RL
Freon 12	ND	5.0
Chloromethane	ND	5.0
Vinyl Chloride	ND	2.5
Bromomethane	ND	5.0
Chloroethane	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	50
Freon 113	ND	25
1,1-Dichloroethene	ND	2.5
Methylene Chloride	ND	50
Carbon Disulfide	ND	2.5
MTBE	ND	2.5
trans-1,2-Dichloroethene	ND	2.5
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	2.5
2-Butanone	ND	50
cis-1,2-Dichloroethene	ND	2.5
2,2-Dichloropropane	ND	2.5
Chloroform	ND	2.5
Bromochloromethane	ND	2.5
1,1,1-Trichloroethane	ND	2.5
1,1-Dichloropropene	ND	2.5
Carbon Tetrachloride	ND	2.5
1,2-Dichloroethane	2.6	2.5
Benzene	320	2.5
Trichloroethene	ND	2.5
1,2-Dichloropropane	ND	2.5
Bromodichloromethane	ND	2.5
Dibromomethane	ND	2.5
4-Methyl-2-Pentanone	ND	50
cis-1,3-Dichloropropene	ND	2.5
Toluene	6.2	2.5
trans-1,3-Dichloropropene	ND	2.5
1,1,2-Trichloroethane	ND	2.5
2-Hexanone	ND	50
1,3-Dichloropropane	ND	2.5
Tetrachloroethene	ND	2.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-6	Batch#:	252934
Lab ID:	293579-008	Sampled:	10/17/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	5.000		

Analyte	Result	RL
Dibromochloromethane	ND	2.5
1,2-Dibromoethane	ND	2.5
Chlorobenzene	ND	2.5
1,1,1,2-Tetrachloroethane	ND	2.5
Ethylbenzene	12	2.5
m,p-Xylenes	8.8	2.5
o-Xylene	ND	2.5
Styrene	ND	2.5
Bromoform	ND	5.0
Isopropylbenzene	5.1	2.5
1,1,2,2-Tetrachloroethane	ND	2.5
1,2,3-Trichloropropane	ND	2.5
Propylbenzene	13	2.5
Bromobenzene	ND	2.5
1,3,5-Trimethylbenzene	ND	2.5
2-Chlorotoluene	ND	2.5
4-Chlorotoluene	ND	2.5
tert-Butylbenzene	3.3	2.5
1,2,4-Trimethylbenzene	ND	2.5
sec-Butylbenzene	ND	2.5
para-Isopropyl Toluene	ND	2.5
1,3-Dichlorobenzene	ND	2.5
1,4-Dichlorobenzene	ND	2.5
n-Butylbenzene	4.4	2.5
1,2-Dichlorobenzene	ND	2.5
1,2-Dibromo-3-Chloropropane	ND	10
1,2,4-Trichlorobenzene	ND	2.5
Hexachlorobutadiene	ND	2.5
Naphthalene	ND	2.5
1,2,3-Trichlorobenzene	ND	2.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	100	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	AS-1D	Batch#:	252917
Lab ID:	293579-009	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	AS-1D	Batch#:	252917
Lab ID:	293579-009	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	106	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	AS-1S	Batch#:	253007
Lab ID:	293579-010	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/25/17
Diln Fac:	33.33		

Analyte	Result	RL
Freon 12	ND	33
Chloromethane	ND	33
Vinyl Chloride	ND	17
Bromomethane	ND	33
Chloroethane	ND	33
Trichlorofluoromethane	ND	33
Acetone	ND	330
Freon 113	ND	170
1,1-Dichloroethene	ND	17
Methylene Chloride	ND	330
Carbon Disulfide	ND	17
MTBE	ND	17
trans-1,2-Dichloroethene	ND	17
Vinyl Acetate	ND	330
1,1-Dichloroethane	ND	17
2-Butanone	ND	330
cis-1,2-Dichloroethene	ND	17
2,2-Dichloropropane	ND	17
Chloroform	ND	17
Bromochloromethane	ND	17
1,1,1-Trichloroethane	ND	17
1,1-Dichloropropene	ND	17
Carbon Tetrachloride	ND	17
1,2-Dichloroethane	ND	17
Benzene	2,500	17
Trichloroethene	ND	17
1,2-Dichloropropane	ND	17
Bromodichloromethane	ND	17
Dibromomethane	ND	17
4-Methyl-2-Pentanone	ND	330
cis-1,3-Dichloropropene	ND	17
Toluene	33	17
trans-1,3-Dichloropropene	ND	17
1,1,2-Trichloroethane	ND	17
2-Hexanone	ND	330
1,3-Dichloropropane	ND	17
Tetrachloroethene	ND	17

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	AS-1S	Batch#:	253007
Lab ID:	293579-010	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/25/17
Diln Fac:	33.33		

Analyte	Result	RL
Dibromochloromethane	ND	17
1,2-Dibromoethane	ND	17
Chlorobenzene	ND	17
1,1,1,2-Tetrachloroethane	ND	17
Ethylbenzene	350	17
m,p-Xylenes	160	17
o-Xylene	91	17
Styrene	ND	17
Bromoform	ND	33
Isopropylbenzene	57	17
1,1,2,2-Tetrachloroethane	ND	17
1,2,3-Trichloropropane	ND	17
Propylbenzene	160	17
Bromobenzene	ND	17
1,3,5-Trimethylbenzene	140	17
2-Chlorotoluene	ND	17
4-Chlorotoluene	ND	17
tert-Butylbenzene	ND	17
1,2,4-Trimethylbenzene	430	17
sec-Butylbenzene	ND	17
para-Isopropyl Toluene	ND	17
1,3-Dichlorobenzene	ND	17
1,4-Dichlorobenzene	ND	17
n-Butylbenzene	ND	17
1,2-Dichlorobenzene	ND	17
1,2-Dibromo-3-Chloropropane	ND	67
1,2,4-Trichlorobenzene	ND	17
Hexachlorobutadiene	ND	17
Naphthalene	200	17
1,2,3-Trichlorobenzene	ND	17

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	109	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	ASMW-2S	Batch#:	252941
Lab ID:	293579-011	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	2.000		

Analyte	Result	RL
Freon 12	ND	2.0
Chloromethane	ND	2.0
Vinyl Chloride	ND	1.0
Bromomethane	ND	2.0
Chloroethane	ND	2.0
Trichlorofluoromethane	ND	2.0
Acetone	ND	20
Freon 113	ND	10
1,1-Dichloroethene	ND	1.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	1.0
MTBE	ND	1.0
trans-1,2-Dichloroethene	ND	1.0
Vinyl Acetate	ND	20
1,1-Dichloroethane	ND	1.0
2-Butanone	ND	20
cis-1,2-Dichloroethene	ND	1.0
2,2-Dichloropropane	ND	1.0
Chloroform	ND	1.0
Bromochloromethane	ND	1.0
1,1,1-Trichloroethane	ND	1.0
1,1-Dichloropropene	ND	1.0
Carbon Tetrachloride	ND	1.0
1,2-Dichloroethane	2.3	1.0
Benzene	130	1.0
Trichloroethene	ND	1.0
1,2-Dichloropropane	ND	1.0
Bromodichloromethane	ND	1.0
Dibromomethane	ND	1.0
4-Methyl-2-Pentanone	ND	20
cis-1,3-Dichloropropene	ND	1.0
Toluene	1.4	1.0
trans-1,3-Dichloropropene	ND	1.0
1,1,2-Trichloroethane	ND	1.0
2-Hexanone	ND	20
1,3-Dichloropropane	ND	1.0
Tetrachloroethene	ND	1.0

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	ASMW-2S	Batch#:	252941
Lab ID:	293579-011	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	2.000		

Analyte	Result	RL
Dibromochloromethane	ND	1.0
1,2-Dibromoethane	ND	1.0
Chlorobenzene	ND	1.0
1,1,1,2-Tetrachloroethane	ND	1.0
Ethylbenzene	13	1.0
m,p-Xylenes	7.0	1.0
o-Xylene	ND	1.0
Styrene	ND	1.0
Bromoform	ND	2.0
Isopropylbenzene	9.0	1.0
1,1,2,2-Tetrachloroethane	ND	1.0
1,2,3-Trichloropropane	ND	1.0
Propylbenzene	29	1.0
Bromobenzene	ND	1.0
1,3,5-Trimethylbenzene	22	1.0
2-Chlorotoluene	ND	1.0
4-Chlorotoluene	ND	1.0
tert-Butylbenzene	5.8	1.0
1,2,4-Trimethylbenzene	62	1.0
sec-Butylbenzene	6.3	1.0
para-Isopropyl Toluene	3.2	1.0
1,3-Dichlorobenzene	ND	1.0
1,4-Dichlorobenzene	ND	1.0
n-Butylbenzene	23	1.0
1,2-Dichlorobenzene	ND	1.0
1,2-Dibromo-3-Chloropropane	ND	4.0
1,2,4-Trichlorobenzene	ND	1.0
Hexachlorobutadiene	ND	1.6
Naphthalene	23	4.0
1,2,3-Trichlorobenzene	ND	1.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	101	72-135
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	ASMW-2D	Batch#:	253007
Lab ID:	293579-012	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/25/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	ASMW-2D	Batch#:	253007
Lab ID:	293579-012	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/25/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	111	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	DUP-1	Batch#:	252941
Lab ID:	293579-013	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	DUP-1	Batch#:	252941
Lab ID:	293579-013	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.8
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	113	72-135
Toluene-d8	97	80-120
Bromofluorobenzene	108	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-9	Batch#:	253122
Lab ID:	293579-014	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/28/17
Diln Fac:	10.00		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	5.0
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	10
Acetone	ND	100
Freon 113	ND	50
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	100
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	100
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	100
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	810	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	100
cis-1,3-Dichloropropene	ND	5.0
Toluene	120	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	100
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-9	Batch#:	253122
Lab ID:	293579-014	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/28/17
Diln Fac:	10.00		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	270	5.0
m,p-Xylenes	550	5.0
o-Xylene	170	5.0
Styrene	ND	5.0
Bromoform	ND	10
Isopropylbenzene	35	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	110	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	170	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	9.3	5.0
1,2,4-Trimethylbenzene	640	5.0
sec-Butylbenzene	8.6	5.0
para-Isopropyl Toluene	5.1	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	18	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	20
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	10
Naphthalene	130	20
1,2,3-Trichlorobenzene	ND	20

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-120
1,2-Dichloroethane-d4	104	72-135
Toluene-d8	104	80-120
Bromofluorobenzene	96	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-7	Batch#:	253007
Lab ID:	293579-015	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/25/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	0.7	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	0.9	0.5
Benzene	58	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	1.5	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-7	Batch#:	253007
Lab ID:	293579-015	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/25/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	3.1	0.5
m,p-Xylenes	2.2	0.5
o-Xylene	0.5	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	0.6	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	0.6	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	1.6	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	102	72-135
Toluene-d8	109	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-12	Batch#:	252941
Lab ID:	293579-016	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-12	Batch#:	252941
Lab ID:	293579-016	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.8
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-120
1,2-Dichloroethane-d4	112	72-135
Toluene-d8	97	80-120
Bromofluorobenzene	105	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-1	Batch#:	252941
Lab ID:	293579-017	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	48	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	12	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-1	Batch#:	252941
Lab ID:	293579-017	Sampled:	10/18/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	5.6	0.5
m,p-Xylenes	4.4	0.5
o-Xylene	3.9	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	2.3	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	5.6	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	4.5	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	0.6	0.5
1,2,4-Trimethylbenzene	14	0.5
sec-Butylbenzene	0.7	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	2.0	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.8
Naphthalene	4.3	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	105	72-135
Toluene-d8	97	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	252917
Units:	ug/L	Analyzed:	10/22/17
Diln Fac:	1.000		

Type: BS Lab ID: QC905885

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.67	93	72-126
Benzene	12.50	12.32	99	80-124
Trichloroethene	12.50	11.67	93	78-120
Toluene	12.50	12.55	100	80-120
Chlorobenzene	12.50	11.44	92	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	105	72-135
Toluene-d8	108	80-120
Bromofluorobenzene	97	80-120

Type: BSD Lab ID: QC905886

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.47	92	72-126	2	20
Benzene	12.50	12.02	96	80-124	2	20
Trichloroethene	12.50	11.78	94	78-120	1	20
Toluene	12.50	12.28	98	80-120	2	20
Chlorobenzene	12.50	11.30	90	80-120	1	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-120
1,2-Dichloroethane-d4	104	72-135
Toluene-d8	108	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC905887	Batch#:	252917
Matrix:	Water	Analyzed:	10/22/17
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC905887	Batch#:	252917
Matrix:	Water	Analyzed:	10/22/17
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	105	72-135
Toluene-d8	108	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	252934
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Type: BS Lab ID: QC905953

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.53	100	72-126
Benzene	12.50	13.06	104	80-124
Trichloroethene	12.50	12.22	98	78-120
Toluene	12.50	13.46	108	80-120
Chlorobenzene	12.50	11.99	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	105	72-135
Toluene-d8	109	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC905954

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.12	97	72-126	3	20
Benzene	12.50	12.76	102	80-124	2	20
Trichloroethene	12.50	12.23	98	78-120	0	20
Toluene	12.50	12.98	104	80-120	4	20
Chlorobenzene	12.50	11.63	93	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	104	72-135
Toluene-d8	108	80-120
Bromofluorobenzene	101	80-120

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC905955	Batch#:	252934
Matrix:	Water	Analyzed:	10/23/17
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC905955	Batch#:	252934
Matrix:	Water	Analyzed:	10/23/17
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	104	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	252941
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Type: BS Lab ID: QC905983

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.77	110	72-126
Benzene	12.50	14.26	114	80-124
Trichloroethene	12.50	13.90	111	78-120
Toluene	12.50	13.57	109	80-120
Chlorobenzene	12.50	13.17	105	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-120
1,2-Dichloroethane-d4	108	72-135
Toluene-d8	100	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC905984

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.63	101	72-126	9	20
Benzene	12.50	13.77	110	80-124	3	20
Trichloroethene	12.50	13.51	108	78-120	3	20
Toluene	12.50	12.84	103	80-120	6	20
Chlorobenzene	12.50	12.76	102	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-120
1,2-Dichloroethane-d4	110	72-135
Toluene-d8	100	80-120
Bromofluorobenzene	97	80-120

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC905985	Batch#:	252941
Matrix:	Water	Analyzed:	10/23/17
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC905985	Batch#:	252941
Matrix:	Water	Analyzed:	10/23/17
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.8
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	115	72-135
Toluene-d8	98	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	253007
Units:	ug/L	Analyzed:	10/25/17
Diln Fac:	1.000		

Type: BS Lab ID: QC906244

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.89	111	72-126
Benzene	12.50	14.04	112	80-124
Trichloroethene	12.50	13.42	107	78-120
Toluene	12.50	14.49	116	80-120
Chlorobenzene	12.50	12.96	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	113	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC906245

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	14.09	113	72-126	1	20
Benzene	12.50	14.15	113	80-124	1	20
Trichloroethene	12.50	13.17	105	78-120	2	20
Toluene	12.50	14.55	116	80-120	0	20
Chlorobenzene	12.50	13.28	106	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-120
1,2-Dichloroethane-d4	100	72-135
Toluene-d8	109	80-120
Bromofluorobenzene	103	80-120

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC906246	Batch#:	253007
Matrix:	Water	Analyzed:	10/25/17
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC906246	Batch#:	253007
Matrix:	Water	Analyzed:	10/25/17
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	111	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	253122
Units:	ug/L	Analyzed:	10/28/17
Diln Fac:	1.000		

Type: BS Lab ID: QC906688

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.72	110	72-126
Benzene	12.50	13.16	105	80-124
Trichloroethene	12.50	12.43	99	78-120
Toluene	12.50	13.79	110	80-120
Chlorobenzene	12.50	12.97	104	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	106	80-120
Bromofluorobenzene	91	80-120

Type: BSD Lab ID: QC906689

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.34	107	72-126	3	20
Benzene	12.50	13.39	107	80-124	2	20
Trichloroethene	12.50	12.72	102	78-120	2	20
Toluene	12.50	13.54	108	80-120	2	20
Chlorobenzene	12.50	13.22	106	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-120
1,2-Dichloroethane-d4	102	72-135
Toluene-d8	102	80-120
Bromofluorobenzene	97	80-120

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC906690	Batch#:	253122
Matrix:	Water	Analyzed:	10/28/17
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC906690	Batch#:	253122
Matrix:	Water	Analyzed:	10/28/17
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	1.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	106	72-135
Toluene-d8	100	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293579	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	253122
MSS Lab ID:	293777-004	Sampled:	10/25/17
Matrix:	Water	Received:	10/26/17
Units:	ug/L	Analyzed:	10/28/17
Diln Fac:	1.000		

Type: MS Lab ID: QC906705

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1259	12.50	13.23	106	76-124
Benzene	<0.1492	12.50	13.29	106	80-124
Trichloroethene	<0.1051	12.50	13.37	107	68-123
Toluene	<0.1147	12.50	13.57	109	80-120
Chlorobenzene	<0.1188	12.50	12.58	101	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-120
1,2-Dichloroethane-d4	107	72-135
Toluene-d8	104	80-120
Bromofluorobenzene	90	80-120

Type: MSD Lab ID: QC906706

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	13.08	105	76-124	1	27
Benzene	12.50	12.56	100	80-124	6	23
Trichloroethene	12.50	12.75	102	68-123	5	24
Toluene	12.50	12.84	103	80-120	6	23
Chlorobenzene	12.50	12.22	98	80-120	3	23

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-120
1,2-Dichloroethane-d4	105	72-135
Toluene-d8	102	80-120
Bromofluorobenzene	95	80-120

RPD= Relative Percent Difference

ENTHALPY

ANALYTICAL

Enthalpy Analytical
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 293611
ANALYTICAL REPORT

Apex Compaines, LLC.	Project : 04-PFT-005
3478 Buskirk Ave	Location : Former Paco Pumps
Pleasant Hill, CA 94523	Level : II

Sample ID	Lab ID
TB-2	293611-001
E-4	293611-002
MW-1	293611-003
MW-5	293611-004
DUP-2	293611-005
MW-11	293611-006
MW-10	293611-007
MW-9	293611-008
MW-2	293611-009

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

Signature: _____ Date: 10/26/2017

Mike Dahlquist
Project Manager
mike.dahlquist@enthalpy.com
(510) 204-2225 Ext 13101

CA ELAP# 2896, NELAP# 4044-001

ENTHALPY ANALYTICAL

CASE NARRATIVE

Laboratory number:	**293611**
Client:	**Apex Compaines, LLC.**
Project:	**04-PFT-005**
Location:	**Former Paco Pumps**
Request Date:	**10/19/17**
Samples Received:	**10/19/17**

This data package contains sample and QC results for nine water samples, requested for the above referenced project on 10/19/17. The samples were received cold and intact. Report revised 11/6/17 to add motor oil.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

PCBs (EPA 8082):
All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

293611

Environmental Sampling Services, LLC

6680 Alhambra Ave., #102
Martinez, California 94553-6105
Telephone: (925) 372-8108
Log Code: ESSM www.envsampling.com

CHAIN OF CUSTODY RECORD

Page 1 of 1

TURN AROUND TIME Other:

LABORATORY: Curtis & Tompkins, Ltd.
Berkeley, CA

☐ 24 Hours ☐ 48 Hours ☐ 1 Week ☑ Normal

Report To: Jake Wilcox Telephone: (925) 951-6387
Company: Apex Companies, LLC Fax: NA
Address: 3478 Buskirk Avenue, Suite 100 Project Name: Former Paco Pumps
Pleasant Hill, CA 94523 Project Number: 04-PFT-005
E-Mail: Jacob.Wilcox@apexcos.com Bill To: SAME
Sampler(s): Stephen Penman ☑ Sampler's Signature:

GeoTracker No.: NA
Reporting Requirement: Hard Copy : Yes ☐ No ☑
EDD File: Yes ☑ No ☐ Electronic (EDF) : Yes ☐ No ☑

SAMPLE ID	Sample Date	Sample Time	Number of Containers	Type of Container[1]	Matrix: Groundwater	Soil	Soil Vapor	Water	Other	Preservative: Ice	HCl	HNO_3	H_2SO_4	VOCs (EPA 8260B)	TPH-d (8015M)	PCBs (8082)	Field Filtered (FF)	Comments
TB-2	10/19/17	0830	3	1				X		X	X			X				
E-4	10/19/17	0927	5	1,2	X					X	X			X	X			
MW-1	10/19/17	1018	5	1,2	X					X	X			X	X			
MW-5	10/19/17	1058	5	1,2	X					X	X			X	X			
DUP-2	10/19/17	1130	5	1,2	X					X	X			X	X			
MW-11	10/19/17	1150	6	1,2	X					X	X			X	X	X		
MW-10	10/19/17	1233	6	1,2	X					X	X			X	X	X		
MW-9	10/19/17	1342	5	1,2	X					X	X			X	X			
MW-2	10/19/17	1432	5	1,2	X					X	X			X	X			

Relinquished By:	Date:	Time:	Received By:
	10/19/17	1615	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

1 = Sample Container Type: 1 =VOA 2=Glass 3=Plastic 4=Summa Canister

QUESTIONS REGARDING COC, CALL ESS

Please email COC for confirmation to:
Jacob.Wilcox@apexcos.com; spen@envsampling.com

SAMPLE RECEIPT
☐ Intact ☐ Cold
☐ On Ice ☐ Ambient
Preservative Correct?
☐ Yes ☐ No ☐ NA

COOLER RECEIPT CHECKLIST

ENTHALPY
Berkeley

Login # 293611 Date Received 10/19/17 Number of coolers 1
Client Apex Project Former Paco Pumps

Date Opened 10/19/17 By (print) DC (sign)
Date Logged in — By (print) DC (sign)
Date Labelled — By (print) DC (sign)

1. Did cooler come with a shipping slip (airbill, etc) ____ YES NO
   Shipping info ____

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

☐ Bubble Wrap ☐ Foam blocks ☑ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

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

☐ Temperature blank(s) included? ☐ Thermometer# ____ ☐ IR Gun# ____

☒ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? ____ YES NO
   If YES, what time were they transferred to freezer? ____
9. Did all bottles arrive unbroken/unopened? ____ YES NO
10. Are there any missing / extra samples? ____ YES NO
11. Are samples in the appropriate containers for indicated tests? ____ YES NO
12. Are sample labels present, in good condition and complete? ____ YES NO
13. Do the sample labels agree with custody papers? ____ YES NO
14. Was sufficient amount of sample sent for tests requested? ____ YES NO
15. Are the samples appropriately preserved? ____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? ____ YES NO N/A
17. Did you document your preservative check? (pH strip lot# ____) YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? ____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? ____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? ____ YES NO N/A
21. Was the client contacted concerning this sample delivery? ____ YES NO
   If YES, Who was called? ____ By ____ Date: ____

COMMENTS
20: Sample 1: 3/3 VOAs arrived in bubble

Rev 14, 8/01/17

ENTHALPY ANALYTICAL

Detections Summary for 293611

Results for any subcontracted analyses are not included in this summary.

Client : Apex Compaines, LLC.
Project : 04-PFT-005
Location : Former Paco Pumps

Client Sample ID : TB-2 Laboratory Sample ID : 293611-001

No Detections

Client Sample ID : E-4 Laboratory Sample ID : 293611-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	100	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Benzene	87		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Toluene	1.4		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Ethylbenzene	3.4		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Isopropylbenzene	1.7		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Propylbenzene	3.7		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B

Client Sample ID : MW-1 Laboratory Sample ID : 293611-003

No Detections

Client Sample ID : MW-5 Laboratory Sample ID : 293611-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	330	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	390		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

Client Sample ID : DUP-2 Laboratory Sample ID : 293611-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	260	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

Client Sample ID : MW-11 Laboratory Sample ID : 293611-006

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	280	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	370		290	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

Client Sample ID : MW-10 Laboratory Sample ID : 293611-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	150	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

Client Sample ID : MW-9 Laboratory Sample ID : 293611-008

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	59	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
MTBE	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichloroethane	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : MW-2 Laboratory Sample ID : 293611-009

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	92	Y	49	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C

Y = Sample exhibits chromatographic pattern which does not resemble standard

ENTHALPY ANALYTICAL

Total Extractable Hydrocarbons

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC905745	Batch#:	252883
Matrix:	Water	Prepared:	10/20/17
Units:	ug/L	Analyzed:	10/23/17

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	91	51-134

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Total Extractable Hydrocarbons

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/19/17
Units:	ug/L	Received:	10/19/17
Diln Fac:	1.000	Prepared:	10/20/17
Batch#:	252883	Analyzed:	10/23/17

Field ID: E-4 Lab ID: 293611-002
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	100 Y	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	91	51-134

Field ID: MW-1 Lab ID: 293611-003
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	ND	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	83	51-134

Field ID: MW-5 Lab ID: 293611-004
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	330 Y	49
Motor Oil C24-C36	390	290

Surrogate	%REC	Limits
o-Terphenyl	97	51-134

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Total Extractable Hydrocarbons

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/19/17
Units:	ug/L	Received:	10/19/17
Diln Fac:	1.000	Prepared:	10/20/17
Batch#:	252883	Analyzed:	10/23/17

Field ID: DUP-2 Lab ID: 293611-005
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	260 Y	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	92	51-134

Field ID: MW-11 Lab ID: 293611-006
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	280 Y	49
Motor Oil C24-C36	370	290

Surrogate	%REC	Limits
o-Terphenyl	95	51-134

Field ID: MW-10 Lab ID: 293611-007
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	150 Y	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	96	51-134

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Total Extractable Hydrocarbons

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	10/19/17
Units:	ug/L	Received:	10/19/17
Diln Fac:	1.000	Prepared:	10/20/17
Batch#:	252883	Analyzed:	10/23/17

Field ID: MW-9 Lab ID: 293611-008
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	59 Y	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	107	51-134

Field ID: MW-2 Lab ID: 293611-009
Type: SAMPLE

Analyte	Result	RL
Diesel C10-C24	92 Y	49
Motor Oil C24-C36	ND	290

Surrogate	%REC	Limits
o-Terphenyl	89	51-134

Type: BLANK Lab ID: QC905745

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	91	51-134

Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	252883
Units:	ug/L	Prepared:	10/20/17
Diln Fac:	1.000	Analyzed:	10/23/17

Type: BS Lab ID: QC905746

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,289	92	50-123

Surrogate	%REC	Limits
o-Terphenyl	100	51-134

Type: BSD Lab ID: QC905747

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,230	89	50-123	3	34

Surrogate	%REC	Limits
o-Terphenyl	99	51-134

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	252883
Units:	ug/L	Prepared:	10/20/17
Diln Fac:	1.000	Analyzed:	10/23/17

Type: BS Lab ID: QC905746

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,289	92	50-123

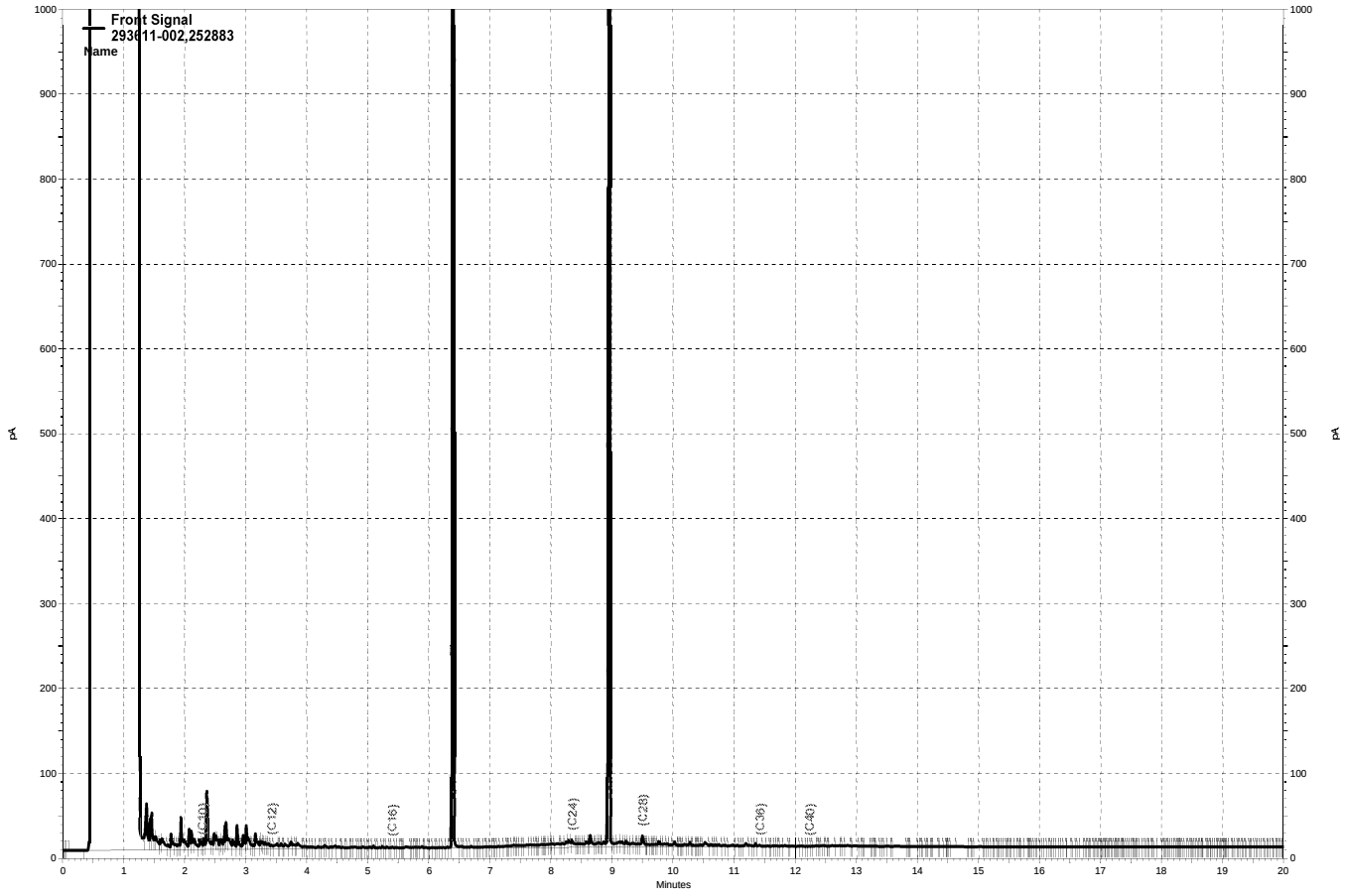
Surrogate	%REC	Limits
o-Terphenyl	100	51-134

Type: BSD Lab ID: QC905747

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,230	89	50-123	3	34

Surrogate	%REC	Limits
o-Terphenyl	99	51-134

RPD= Relative Percent Difference



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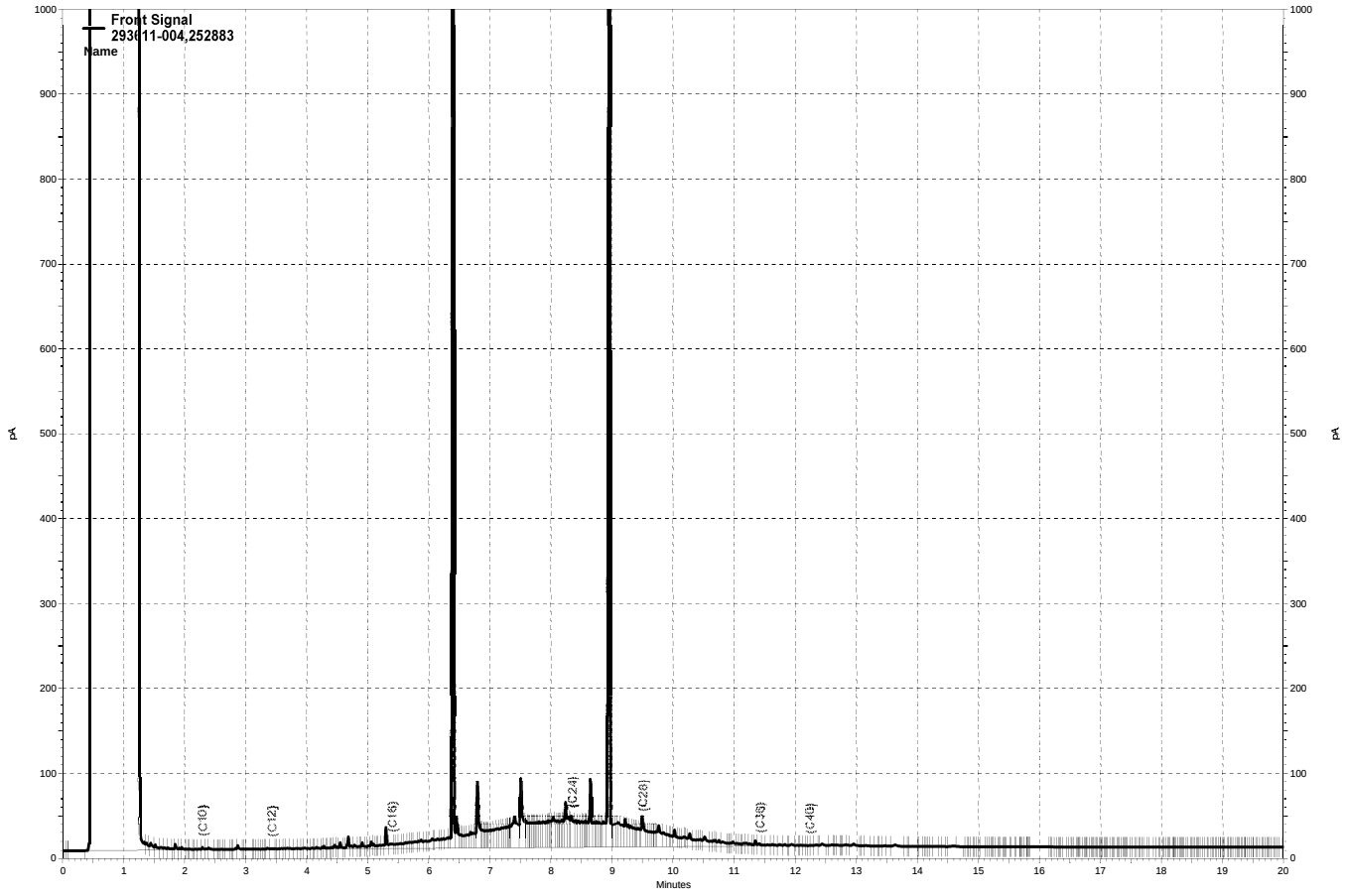

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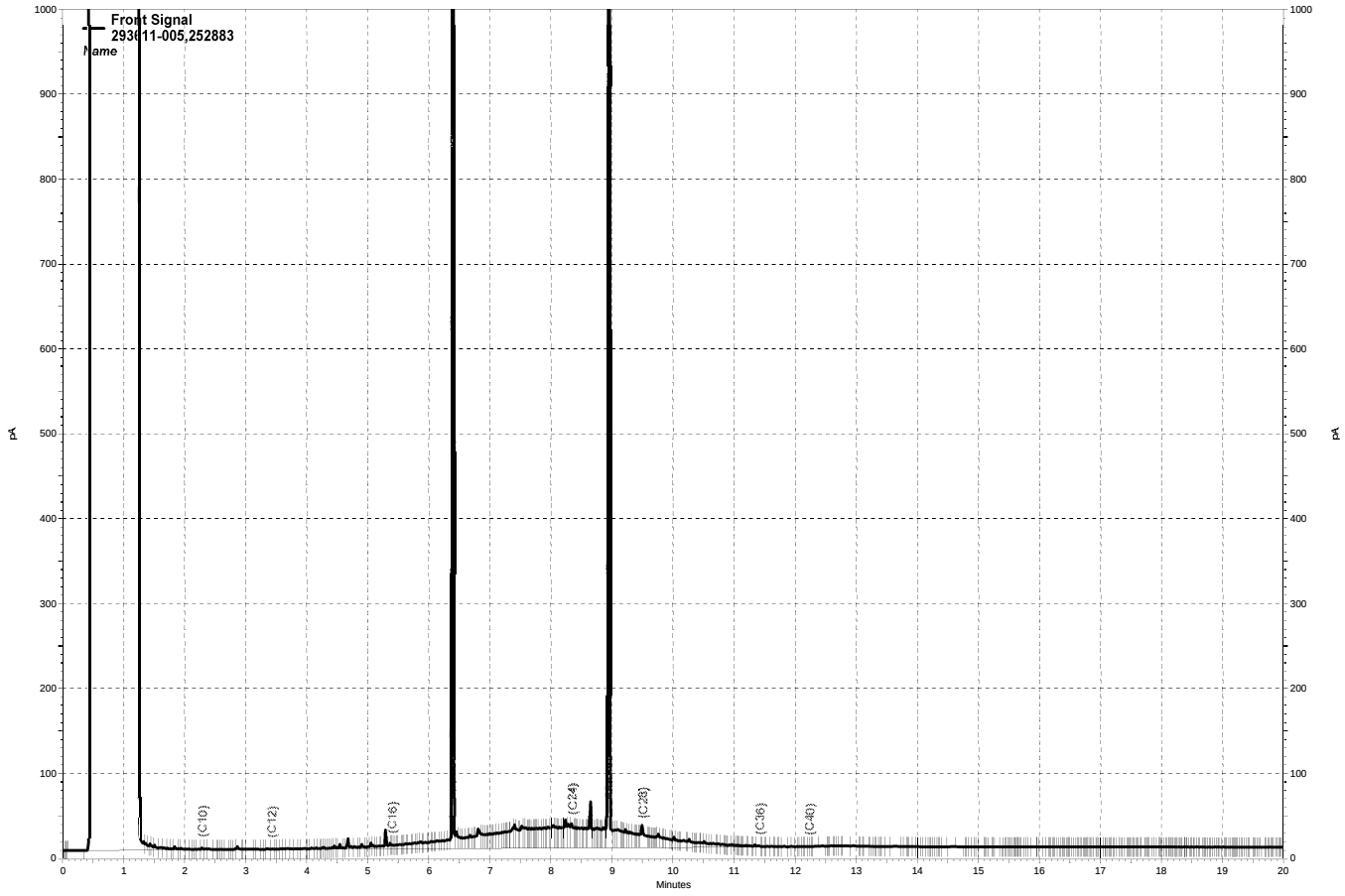

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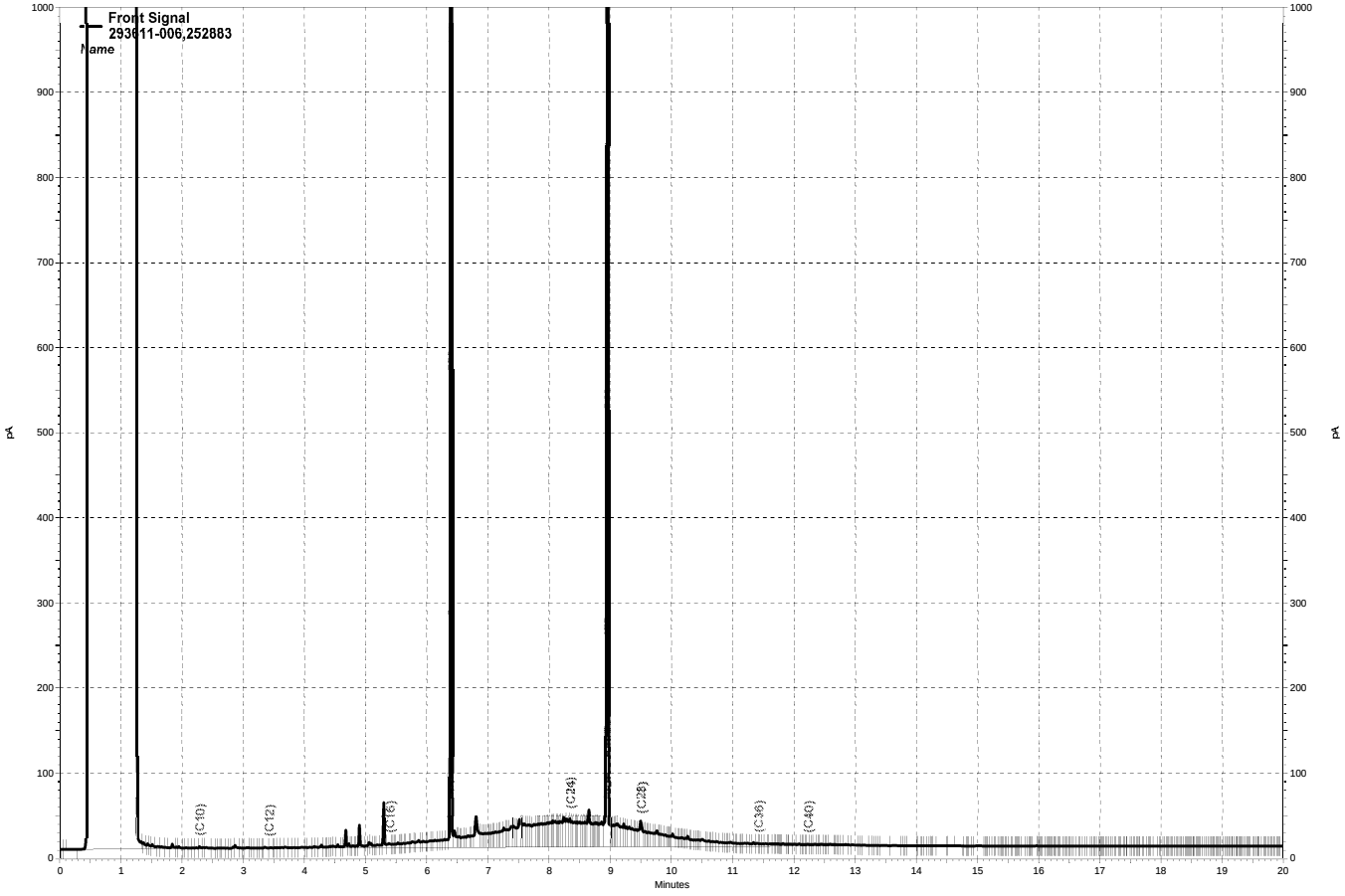

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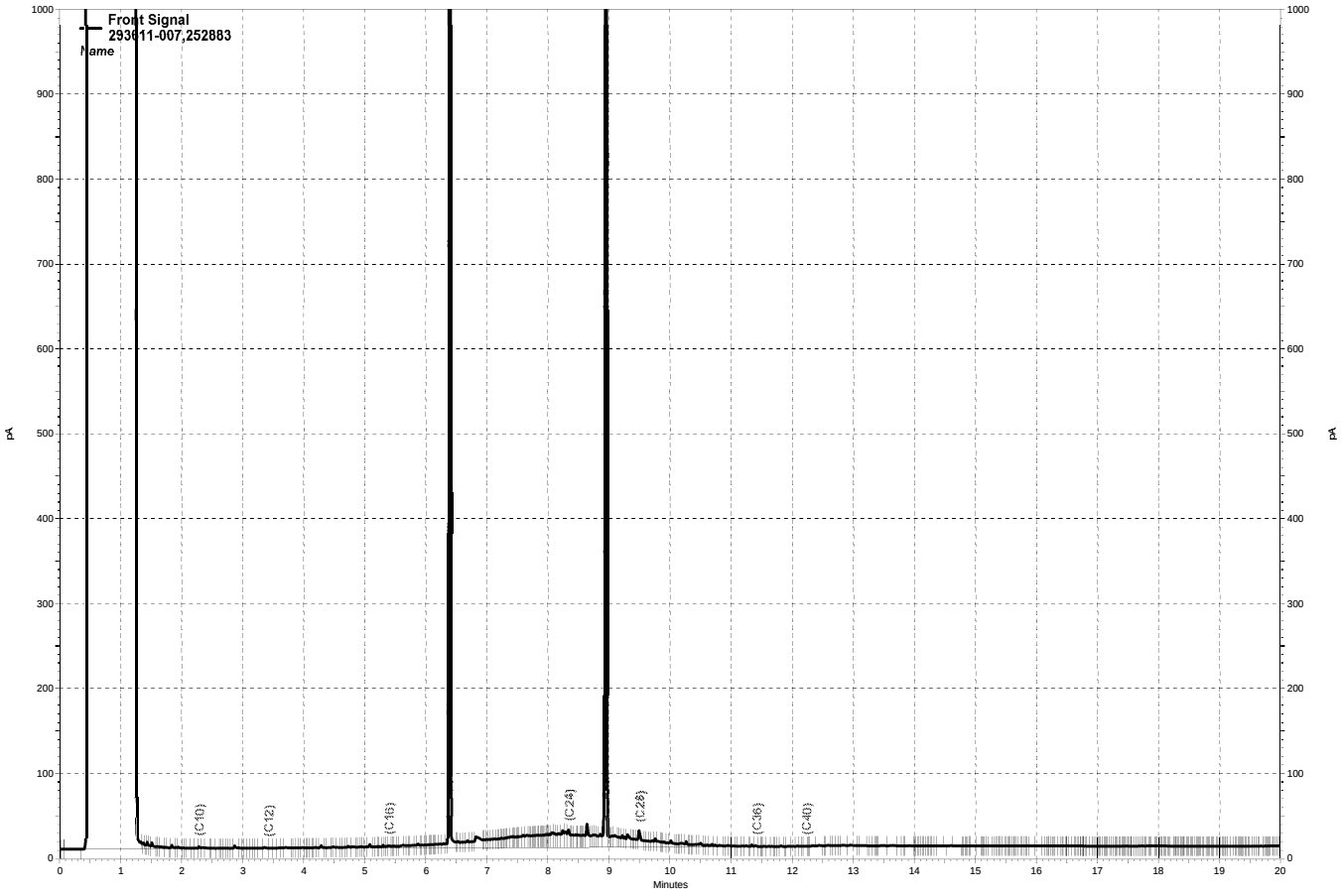

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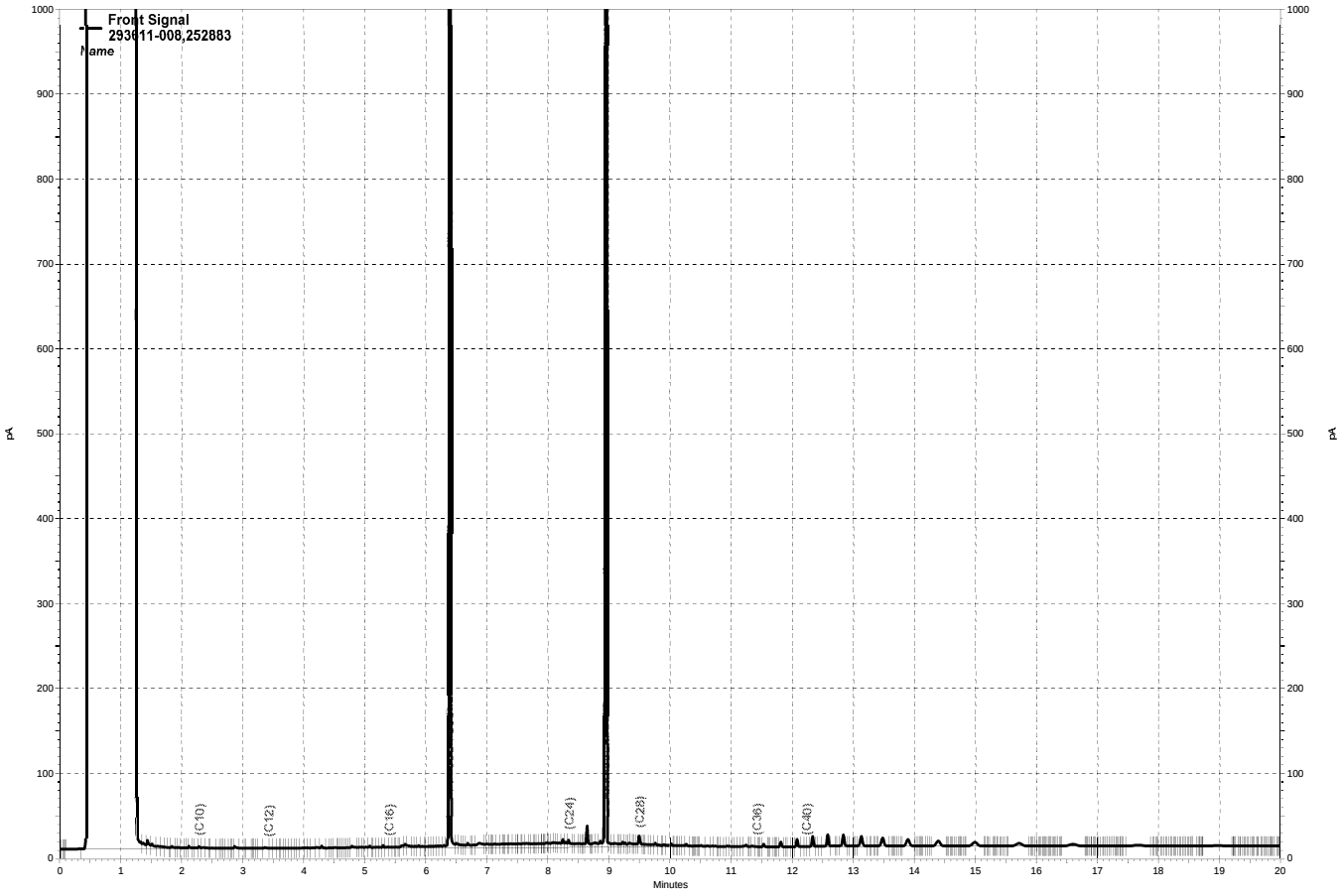

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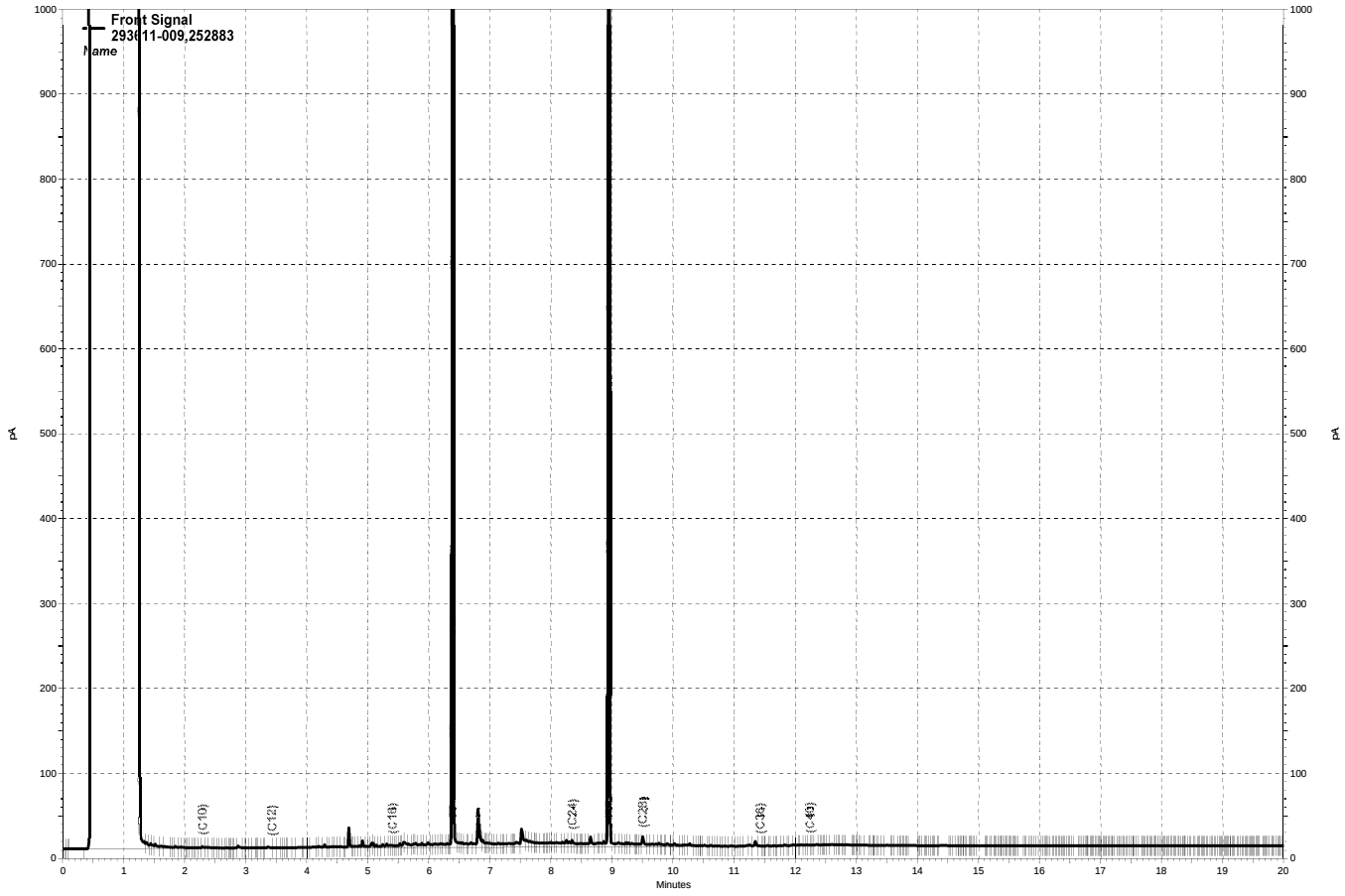

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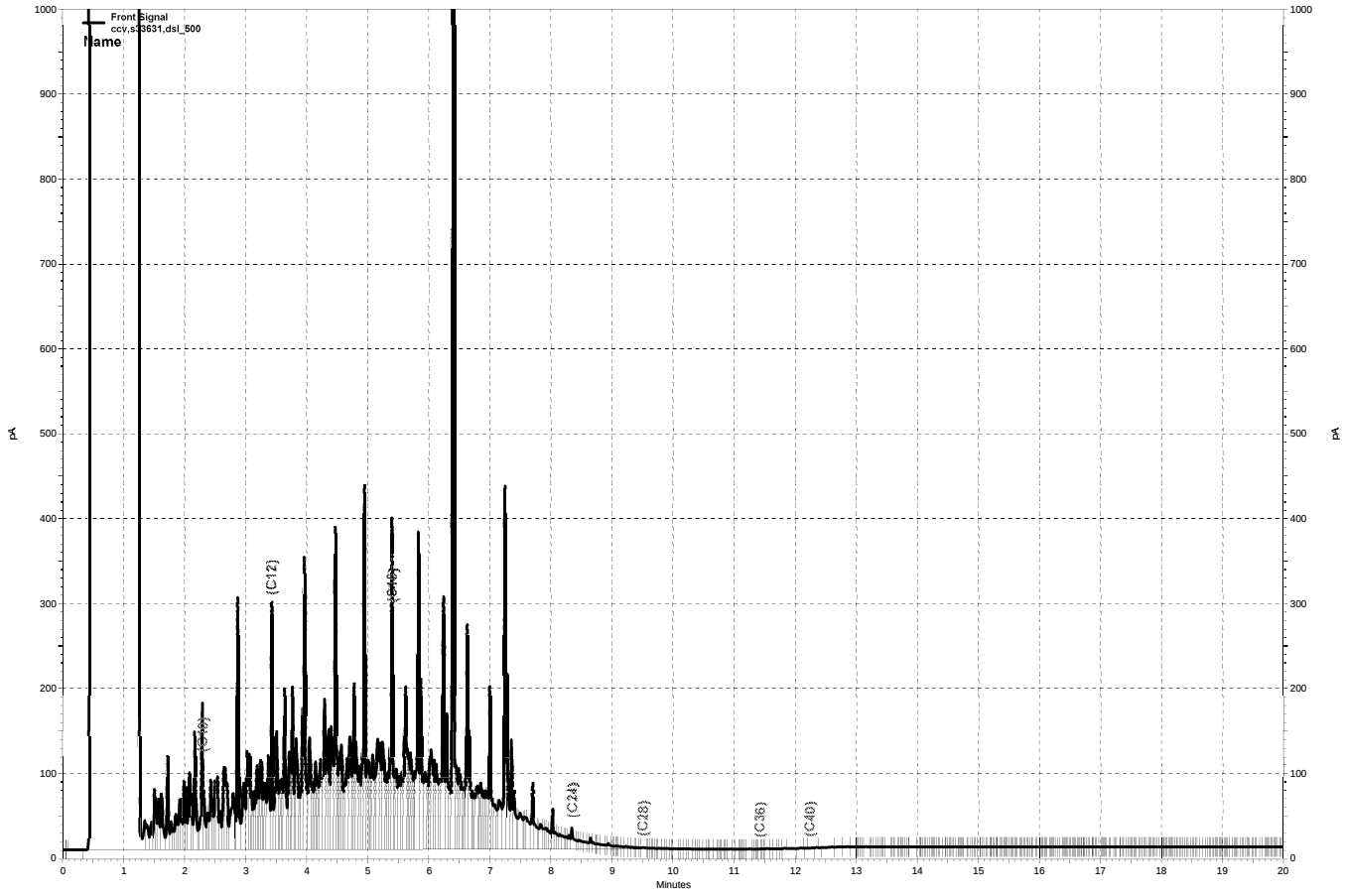

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ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	TB-2	Batch#:	252934
Lab ID:	293611-001	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	TB-2	Batch#:	252934
Lab ID:	293611-001	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-120
1,2-Dichloroethane-d4	104	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-4	Units:	ug/L
Lab ID:	293611-002	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Freon 12	ND	2.0	2.000	252984	10/25/17
Chloromethane	ND	2.0	2.000	252984	10/25/17
Vinyl Chloride	ND	1.0	2.000	252984	10/25/17
Bromomethane	ND	2.0	2.000	252984	10/25/17
Chloroethane	ND	2.0	2.000	252984	10/25/17
Trichlorofluoromethane	ND	2.0	2.000	252984	10/25/17
Acetone	ND	20	2.000	252984	10/25/17
Freon 113	ND	10	2.000	252984	10/25/17
1,1-Dichloroethene	ND	1.0	2.000	252984	10/25/17
Methylene Chloride	ND	20	2.000	252984	10/25/17
Carbon Disulfide	ND	1.0	2.000	252984	10/25/17
MTBE	ND	1.0	2.000	252984	10/25/17
trans-1,2-Dichloroethene	ND	1.0	2.000	252984	10/25/17
Vinyl Acetate	ND	20	2.000	252984	10/25/17
1,1-Dichloroethane	ND	1.0	2.000	252984	10/25/17
2-Butanone	ND	20	2.000	252984	10/25/17
cis-1,2-Dichloroethene	ND	1.0	2.000	252984	10/25/17
2,2-Dichloropropane	ND	1.0	2.000	252984	10/25/17
Chloroform	ND	1.0	2.000	252984	10/25/17
Bromochloromethane	ND	1.0	2.000	252984	10/25/17
1,1,1-Trichloroethane	ND	1.0	2.000	252984	10/25/17
1,1-Dichloropropene	ND	1.0	2.000	252984	10/25/17
Carbon Tetrachloride	ND	1.0	2.000	252984	10/25/17
1,2-Dichloroethane	ND	1.0	2.000	252984	10/25/17
Benzene	87	1.0	2.000	252984	10/25/17
Trichloroethene	ND	1.0	2.000	252984	10/25/17
1,2-Dichloropropane	ND	1.0	2.000	252984	10/25/17
Bromodichloromethane	ND	1.0	2.000	252984	10/25/17
Dibromomethane	ND	1.0	2.000	252984	10/25/17
4-Methyl-2-Pentanone	ND	20	2.000	252984	10/25/17
cis-1,3-Dichloropropene	ND	1.0	2.000	252984	10/25/17
Toluene	1.4	1.0	2.000	252984	10/25/17
trans-1,3-Dichloropropene	ND	1.0	2.000	252984	10/25/17
1,1,2-Trichloroethane	ND	1.0	2.000	252984	10/25/17
2-Hexanone	ND	20	2.000	252984	10/25/17
1,3-Dichloropropane	ND	1.0	2.000	252984	10/25/17
Tetrachloroethene	ND	1.0	2.000	252984	10/25/17
Dibromochloromethane	ND	1.0	2.000	252984	10/25/17
1,2-Dibromoethane	ND	1.0	2.000	252984	10/25/17

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	E-4	Units:	ug/L
Lab ID:	293611-002	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Chlorobenzene	ND	1.0	2.000	252984	10/25/17
1,1,1,2-Tetrachloroethane	ND	1.0	2.000	252984	10/25/17
Ethylbenzene	3.4	1.0	2.000	252984	10/25/17
m,p-Xylenes	ND	1.0	2.000	252984	10/25/17
o-Xylene	ND	1.0	2.000	252984	10/25/17
Styrene	ND	1.0	2.000	252984	10/25/17
Bromoform	ND	2.0	2.000	252984	10/25/17
Isopropylbenzene	1.7	1.0	2.000	252984	10/25/17
1,1,2,2-Tetrachloroethane	ND	1.0	2.000	252984	10/25/17
1,2,3-Trichloropropane	ND	1.0	2.000	252984	10/25/17
Propylbenzene	3.7	1.0	2.000	252984	10/25/17
Bromobenzene	ND	1.0	2.000	252984	10/25/17
1,3,5-Trimethylbenzene	ND	1.0	2.000	252984	10/25/17
2-Chlorotoluene	ND	1.0	2.000	252984	10/25/17
4-Chlorotoluene	ND	1.0	2.000	252984	10/25/17
tert-Butylbenzene	ND	1.0	2.000	252984	10/25/17
1,2,4-Trimethylbenzene	ND	1.0	2.000	252984	10/25/17
sec-Butylbenzene	ND	1.0	2.000	252984	10/25/17
para-Isopropyl Toluene	ND	1.0	2.000	252984	10/25/17
1,3-Dichlorobenzene	ND	1.0	2.000	252984	10/25/17
1,4-Dichlorobenzene	ND	1.0	2.000	252984	10/25/17
n-Butylbenzene	ND	3.1	6.250	252934	10/23/17
1,2-Dichlorobenzene	ND	1.0	2.000	252984	10/25/17
1,2-Dibromo-3-Chloropropane	ND	4.0	2.000	252984	10/25/17
1,2,4-Trichlorobenzene	ND	1.0	2.000	252984	10/25/17
Hexachlorobutadiene	ND	3.1	6.250	252934	10/23/17
Naphthalene	ND	3.1	6.250	252934	10/23/17
1,2,3-Trichlorobenzene	ND	3.1	6.250	252934	10/23/17

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	101	80-120	2.000	252984	10/25/17
1,2-Dichloroethane-d4	116	72-135	2.000	252984	10/25/17
Toluene-d8	102	80-120	2.000	252984	10/25/17
Bromofluorobenzene	108	80-120	2.000	252984	10/25/17

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-1	Batch#:	252934
Lab ID:	293611-003	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-1	Batch#:	252934
Lab ID:	293611-003	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-5	Batch#:	252934
Lab ID:	293611-004	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-5	Batch#:	252934
Lab ID:	293611-004	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	109	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	DUP-2	Batch#:	252934
Lab ID:	293611-005	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	DUP-2	Batch#:	252934
Lab ID:	293611-005	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	105	72-135
Toluene-d8	109	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-11	Batch#:	252934
Lab ID:	293611-006	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-11	Batch#:	252934
Lab ID:	293611-006	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	111	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-10	Batch#:	252934
Lab ID:	293611-007	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-10	Batch#:	252934
Lab ID:	293611-007	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	103	72-135
Toluene-d8	111	80-120
Bromofluorobenzene	100	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-9	Batch#:	252934
Lab ID:	293611-008	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	0.6	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	0.9	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-9	Batch#:	252934
Lab ID:	293611-008	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	102	72-135
Toluene-d8	108	80-120
Bromofluorobenzene	109	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	252934
Lab ID:	293611-009	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Field ID:	MW-2	Batch#:	252934
Lab ID:	293611-009	Sampled:	10/19/17
Matrix:	Water	Received:	10/19/17
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-120
1,2-Dichloroethane-d4	102	72-135
Toluene-d8	109	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	252934
Units:	ug/L	Analyzed:	10/23/17
Diln Fac:	1.000		

Type: BS Lab ID: QC905953

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.53	100	72-126
Benzene	12.50	13.06	104	80-124
Trichloroethene	12.50	12.22	98	78-120
Toluene	12.50	13.46	108	80-120
Chlorobenzene	12.50	11.99	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-120
1,2-Dichloroethane-d4	105	72-135
Toluene-d8	109	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC905954

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.12	97	72-126	3	20
Benzene	12.50	12.76	102	80-124	2	20
Trichloroethene	12.50	12.23	98	78-120	0	20
Toluene	12.50	12.98	104	80-120	4	20
Chlorobenzene	12.50	11.63	93	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	104	72-135
Toluene-d8	108	80-120
Bromofluorobenzene	101	80-120

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC905955	Batch#:	252934
Matrix:	Water	Analyzed:	10/23/17
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC905955	Batch#:	252934
Matrix:	Water	Analyzed:	10/23/17
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	0.5
Naphthalene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-120
1,2-Dichloroethane-d4	104	72-135
Toluene-d8	110	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	252984
Units:	ug/L	Analyzed:	10/24/17
Diln Fac:	1.000		

Type: BS Lab ID: QC906158

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.50	92	72-126
Benzene	12.50	12.68	101	80-124
Trichloroethene	12.50	13.07	105	78-120
Toluene	12.50	13.33	107	80-120
Chlorobenzene	12.50	12.53	100	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	111	72-135
Toluene-d8	101	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC906159

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	10.41	83	72-126	10	20
Benzene	12.50	11.34	91	80-124	11	20
Trichloroethene	12.50	11.97	96	78-120	9	20
Toluene	12.50	12.55	100	80-120	6	20
Chlorobenzene	12.50	12.06	96	80-120	4	20

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	109	72-135
Toluene-d8	102	80-120
Bromofluorobenzene	102	80-120

RPD= Relative Percent Difference

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC906223	Batch#:	252984
Matrix:	Water	Analyzed:	10/24/17
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	5.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 5030B
Project#:	04-PFT-005	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC906223	Batch#:	252984
Matrix:	Water	Analyzed:	10/24/17
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-120
1,2-Dichloroethane-d4	113	72-135
Toluene-d8	101	80-120
Bromofluorobenzene	114	80-120

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Polychlorinated Biphenyls (PCBs)

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8082
Matrix:	Water	Sampled:	10/19/17
Units:	ug/L	Received:	10/19/17
Diln Fac:	1.000	Prepared:	10/23/17
Batch#:	252939	Analyzed:	10/25/17

Field ID: MW-11 Lab ID: 293611-006
Type: SAMPLE Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.19
Aroclor-1221	ND	0.38
Aroclor-1232	ND	0.19
Aroclor-1242	ND	0.19
Aroclor-1248	ND	0.19
Aroclor-1254	ND	0.19
Aroclor-1260	ND	0.19

Surrogate	%REC	Limits
Decachlorobiphenyl	94	22-139

Field ID: MW-10 Lab ID: 293611-007
Type: SAMPLE Cleanup Method: EPA 3665A

Analyte	Result	RL
Aroclor-1016	ND	0.19
Aroclor-1221	ND	0.38
Aroclor-1232	ND	0.19
Aroclor-1242	ND	0.19
Aroclor-1248	ND	0.19
Aroclor-1254	ND	0.19
Aroclor-1260	ND	0.19

Surrogate	%REC	Limits
Decachlorobiphenyl	111	22-139

Type: BLANK Cleanup Method: EPA 3620B,3665A
Lab ID: QC905978

Analyte	Result	RL
Aroclor-1016	ND	0.20
Aroclor-1221	ND	0.40
Aroclor-1232	ND	0.20
Aroclor-1242	ND	0.20
Aroclor-1248	ND	0.20
Aroclor-1254	ND	0.20
Aroclor-1260	ND	0.20

Surrogate	%REC	Limits
Decachlorobiphenyl	103	22-139

ND= Not Detected
RL= Reporting Limit

ENTHALPY ANALYTICAL

Batch QC Report

Polychlorinated Biphenyls (PCBs)

Lab #:	293611	Location:	Former Paco Pumps
Client:	Apex Compaines, LLC.	Prep:	EPA 3520C
Project#:	04-PFT-005	Analysis:	EPA 8082
Matrix:	Water	Batch#:	252939
Units:	ug/L	Prepared:	10/23/17
Diln Fac:	1.000	Analyzed:	10/25/17

Type: BS Lab ID: QC906119

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	2.500	2.231	89	59-134
Aroclor-1260	2.500	2.166	87	54-144

Surrogate	%REC	Limits
Decachlorobiphenyl	97	22-139

Type: BSD Lab ID: QC906120

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	2.500	2.438	98	59-134	9	33
Aroclor-1260	2.500	2.584	103	54-144	18	44

Surrogate	%REC	Limits
Decachlorobiphenyl	112	22-139

RPD= Relative Percent Difference