

August 24, 2015

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By Alameda County Environmental Health 1:24 pm, Aug 24, 2015

Mr. Mark Detterman
Alameda County Environmental Health Services
1131 Harbor Bay Parkway
Alameda, California 94502

S u b j e c t :

Soil and Groundwater Investigation Report

Tidewater Business Park

4723 Tidewater Avenue, Oakland, California

PSI Project No. 575-872-1

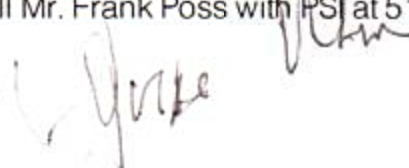
Dear Mr. Detterman:

Please accept our submittal of the Soil and Groundwater Investigation Report for the subject site dated August 20, 2015 and prepared by Professional Service Industries, Inc. Please refer to the attached report for details.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached Workplan are true and correct to the best of my knowledge, without independently investigating or verifying the information contained therein.

If you have any questions regarding this report or any aspect of the project, please call Mr. Frank Poss with PSI at 510-434-9200 (x303).

Sincerely,



Mr. Morgan Muir
Property Owner
4723 Tidewater Avenue



SUBSURFACE INVESTIGATION REPORT

TIDEWATER BUSINESS PARK
4723 TIDEWATER AVENUE
OAKLAND, CALIFORNIA

Prepared for

Mr. Morgan Muir
4723 Tidewater Avenue
Oakland, California 94601

Prepared by

Professional Service Industries, Inc.
4703 Tidewater Avenue, Suite B
Oakland, California 94601

August 20, 2015

PSI Project 575-872

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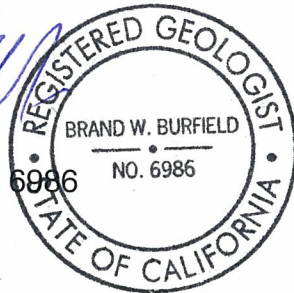
STATEMENT OF LIMITATIONS AND PROFESSIONAL CERTIFICATION

The information provided in this Subsurface Investigation Report, PSI Project Number 575 872, is intended exclusively for Mr. Morgan Muir for the evaluation of soil and groundwater contamination as it pertains to the subject site in Oakland at the time the activities were conducted. The professional services provided have been performed in accordance with practices generally accepted by other environmental professionals, geologists, hydrologists, engineers, and environmental scientists practicing in this field. No other warranty, either expressed or implied, is made. As with all subsurface soil and groundwater sampling, there is no guarantee that the work conducted has identified any and all sources or locations of petroleum hydrocarbons or hazardous substances or chemicals in the soil or groundwater.

This report has been reviewed by a geologist who is registered in the State of California and whose signature and license number appear below.

Professional Service Industries, Inc.


Brand Burfield, PG 6986
Project Geologist




Frank Poss
Department Manager
Principal Consultant

1.0 INTRODUCTION

PSI understands that the subject property consists of an approximately 14,092 square foot building on 1.13 acres in the Tidewater Business Park with an address of 4723 Tidewater Avenue, Oakland, California. As there are several parcels at the Tidewater Business Park, the subject property is defined as only the 4723 Tidewater Avenue property. The site is currently used as a light industrial business park. The location of the site can be found on Figure 1.

1.1 PROJECT BACKGROUND

The Tidewater Business Park is identified as a SLIC (Spills, Leaks, Investigation, and Cleanup) site by the Regional Water Quality Control Board (RWQCB). The designation is due to the presence of petroleum hydrocarbons found in composite soil samples collected in 1988. The 1988 soil sampling was conducted on the entire Tidewater Business Park, OF which the subject property is a portion. Two of the five composite soil samples were collected from the subject property (TWBP1 and TWBP2). These soil sample locations can be found on Figure 2. The soil samples were collected from 1 to 3.5 feet below ground surface and were analyzed individually and as composite samples. The results of the analysis indicated metal concentrations below State of California hazardous waste criteria and volatile organic compound (VOC) and semi-volatile organic compound (SVOC) concentrations below detection limits. The Total Petroleum Hydrocarbon as Motor Oil (TPH-MO) concentrations were 80 milligrams per kilogram (mg/kg) and 527 mg/kg from the soil samples collected from TWBP1 and TWBP2, respectively. Due to the elevated concentration of TPH-MO, the Tidewater Business Park was designated as a SLIC site.

In a conversation with Mr. Mark Detterman of the Alameda County Department of Environmental Health (ACEHD), he stated that to obtain a No Further Action (NFA) for only the subject property, a new SLIC site would need to be designated for the subject property. Mr. Detterman completed this on July 1, 2105 and the SLIC site case number is T10000007146. This would not release the responsibility of the SLIC designation for the remainder of the parcels of the Tidewater Business Park.

2.0 INVESTIGATIVE METHODS

2.1 PRE-FIELD ACTIVITIES

Prior to initiation of field drilling activities, PSI marked the site boundaries and boring locations with white paint and contacted Underground Service Alert (USA) a minimum of 48 hours prior to beginning work to locate any potential buried utilities. PSI also contracted Cruz Brothers, a subcontract utility location service, to check the boring locations for existing private underground utilities. Additionally, PSI obtained soil boring permit from the Alameda County Public Works (ACPW). A copy of the permit is included in Appendix A.

A Workplan dated July 1, 2015 was also prepared, submitted, and approved by the ACEHD prior to initiating field work.

2.2 SOIL BORINGS

On July 29, 2015, six (6) soil borings (B-1 through B-6) were advanced at the subject site. The borings were completed by Cascade Drilling using a direct-push, continuous-core drill rig under the supervision of Mr. Sam Ramos, Staff Engineer with PSI. Three borings (B-1 through B-3) were located along a railroad spur located at the front of the property, two borings (B-5 and B-6) were located behind the building, and one boring (B-4) was located in the front of the building (See Figure 2). Soil samples were collected from the borings at four foot intervals to the depth explored in each boring, which ranged from 8 to 22 feet (bgs).

The subsurface materials encountered consisted primarily of sand and coarse sand in the upper 2 to 8 feet underlain by sandy clay to the total depth explored of up to approximately 22 feet below ground surface (bgs). None of the borings were noted to have any indication of contamination (e.g. discoloration or odor) during drilling or sampling; and photoionization detector (PID) readings were all below detection limits. Free groundwater was encountered between 4 and 10 feet bgs with groundwater not encountered in borings B-1 and B-3.

At the completion of drilling, each of the borings was backfilled with cement grout in accordance with ACPW permit requirements. Field drilling activities were conducted in general accordance with the procedures described in Appendix B. The soil borings were logged in general accordance with the Unified Soil Classification System. A more detailed description of subsurface soil encountered is presented in the soil boring logs (see Appendix C).

2.2 SOIL SAMPLING

Direct-push soil samples were collected from borings B-1 through B-6 using a stainless steel, continuous-core sampler, which was lined with a new, 4-foot long acetate tube prior

to each drive of the sampler. Upon retrieval, the soil samples were capped with Teflon sheeting and plastic end caps, and then labeled using a permanent marking pen identifying the sample name, sample collection depth, time, and date. Soil sampling was conducted in general accordance with the procedures described in Appendix B.

The soil samples scheduled for analyses were logged on a chain-of-custody record and transported to Sunstar Laboratories, Inc. of Lake Forest, California, a California Department of Health Services certified environmental testing laboratory, following chain-of-custody protocol. The samples were maintained in a chilled ice cooler or laboratory sample refrigerator until their arrival at the analytical laboratory. The soil analytical results are discussed in Section 3.

2.3 GROUNDWATER SAMPLING

Each boring was advanced to the depth explored and the drill rods were removed from the hole. A temporary well (new 1-inch diameter slotted PVC casing) was then placed in each hole to its total depth to ensure that the hole would not cave in prior to collection of a water sample. Groundwater never entered borings B-1 and B-3, so a groundwater sample was not collected from these borings. Grab groundwater samples were collected with single-use dedicated bailers that were lowered through the PVC casing into the groundwater at the bottom of the hole. Water collected was decanted directly into laboratory-supplied, preserved sample containers. The containers were then capped, labeled and placed in an ice-chilled cooler. Samples were labeled by location. Groundwater sampling was conducted in general accordance with the procedures described in Appendix B.

The groundwater samples were logged on a chain-of-custody record and transported to Sunstar Laboratories, Inc., following chain-of-custody protocol. The samples were maintained in a cooler with ice or laboratory sample refrigerator until their arrival at the analytical laboratory. The groundwater analytical results are discussed in Section 3.

3.0 LABORATORY RESULTS AND DISCUSSION

3.1 LABORATORY ANALYSIS PROGRAM

The soil and groundwater samples collected during this investigation were submitted to a State of California Department of Health Services certified environmental laboratory.

The selected samples were analyzed for the following constituents:

- Total Petroleum Hydrocarbon Speciation (TPH-Speciation) according to EPA Method 8015M using silica gel cleanup.
- Volatile Organic Compounds (VOCs) according to EPA Method 8260.
- Semi-Volatile Organic Compounds (SVOCs) according to EPA Method 8270.
- CAM Metals (17 Metals) according to EPA Method 6010.
- Polychlorinated Biphenyls (PCBs) according to EPA Method 8081.

All groundwater samples collected were analyzed for the entire analytical suite. One soil sample selected from each of the borings was analyzed for TPH-Speciation, which based on the lack of evidence of impacted soil was the soil sample collected at 1 foot bgs in each of the borings. For soil samples that had detectable TPH-Speciation results (B-1-1.0, B-5-1.0, and B-6-1.0), the entire suite of analyses was completed. The only exceptions are the one-foot soil sample from borings B-2 and B-3, drilled along the railroad spur, which were analyzed for metals and PCBs. Additionally, per the request of Mr. Detterman of the ACEHD, if TPH Concentrations greater than the Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for residential properties were detected in the 1-foot sample, the soil samples collected in the unsaturated zone (2.5 and 5.0 bgs) would be analyzed for TPH-Speciation (this occurred in soil borings B-5 and B-6).

A copy of the laboratory reports and chain of custody records are included in Appendix D. A summary of the analytical results for organics is included in Table 1 and for metals in Table 2.

3.2 CHEMICAL ANALYSIS RESULTS

3.2.1 Soil Samples

Results of the soil analyses indicates the following;

- TPH-G was not detected in any of the soil samples.
- TPH-D was detected in soil samples B-5-1.0 and B-6-2.5 at concentrations of 36 and 65 milligrams per kilogram (mg/kg). These concentrations are below the Regional Water Quality Control Board (RWQCB) Environmental Screening Level (ESL) for residential properties of 100 mg/kg for TPH-D.

- TPH-MO was detected in soil samples B-1-1.0, B-5-1.0, B-6-1.0, and B-6-2.5 at concentrations of 46, 570, 110, and 630 mg/kg. With the exception of the soil sample collected from B-1, these concentrations are above the RWQCB ESL for residential properties of 100 mg/kg for TPH-MO.
- VOCs were not detected in any of the soil samples tested.
- SVOCs were not detected in any of the soil samples tested.
- PCBs were not detected in any of the soil samples tested.
- Metals were detected in each of the soil samples at concentrations, which appear to be background concentrations. None of the metal concentrations exceeded hazardous waste criteria.

3.2.2 Groundwater Samples

A sample of groundwater from each of Borings B-2 and B-4 through B-6 was submitted for analysis. The results of the groundwater analyses indicate the following:

- TPH-G, TPH-D and TPH-MO were not detected in any of the groundwater samples.
- VOCs were not detected in any of the groundwater samples, except for tert butyl alcohol (TBA) at 11 micrograms per liter (ug/L) in groundwater sample B-4. The TBA concentration is below the RWQCB ESL
- SVOCs were not detected in any of the groundwater samples with the exception of di-n-butyl phthalate in groundwater samples B-2, B-5, and B-6 at concentrations of concentrations of 8.9, 25, and 29 ug/L. Di-n-butyl phthalate does not have a RWQCB ESL and is a common laboratory/field contaminant. .
- PCBs were not detected in any of the groundwater samples.
- Metals were detected in each of the groundwater samples at concentrations, which appear to be background concentrations with possibly the exception of groundwater sample collected from boring B-4 for barium. As there appears to be no source of barium impact at the site and all other soil and groundwater samples appear to be background conditions (including the soil sample from boring B-4), PSI considers this barium concentration to be an outlier.

3.3 CHEMICAL RESULTS DISCUSSION

The results of the soil sample analyses indicates that only three soil samples had concentrations greater than the RWQCB ESL for residential properties for TPH-MO. Those soil samples were B-5-1, B-6-1, and B-6-2.5. PSI believes that although these soil samples were above the ESL for TPH-MO, they do not represent a threat to human health and the environment for the following reasons:

- TPH-G, TPH-D, VOC, SVOC, PCB, and metal analyses were either below ESLs or at background concentrations.

At least one soil sample in each of these borings between the groundwater and the impacted soil sample was not detect for TPH-MO.

- Groundwater samples from both of these borings were not detected for TPH-MO reflecting the limited mobility of the contaminant in the impacted soil.
- It is possible that the detection of TPH-MO in the soil could be the result of asphalt or tar/tack coat inadvertently being collected as part of the shallow soil samples.
- Any possible source of the TPH-MO detected in the soil is no longer present and the area where the soil was encountered is covered with asphalt, limiting downward migration of impacted soil.

All groundwater samples were below ESLs and therefore do not represent a threat to human health and the environment.

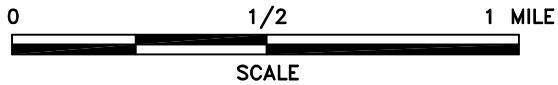
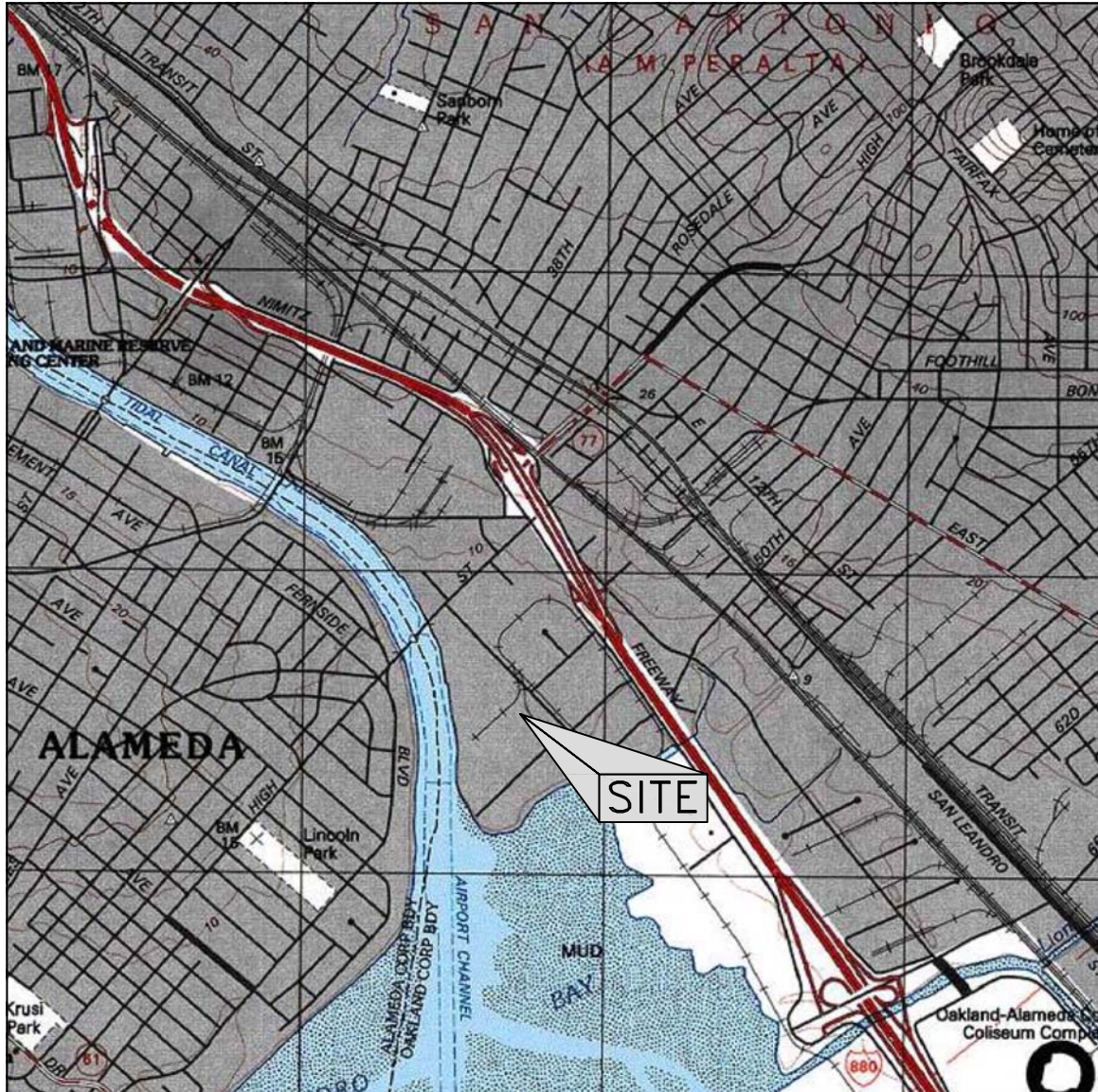
4.0 CONCLUSIONS AND RECOMMENDATIONS

The following are the conclusions for this subsurface investigation based on the data obtained.

- None of the soil and groundwater samples collected at the site had concentrations of the tested constituents at greater than their respective residential RWQCB ESL with the exception of TPH-MO. PSI believes the TPH-MO impacted soil is not a threat to human health and the environment for due to the lack of a source, low contaminant mobility, lack of other contaminants above ESLs.

PSI recommends no further action associated with this SLIC site. PSI recommends that this report be forwarded to the ACEHD for their concurrence.

FIGURES



REFERENCE:

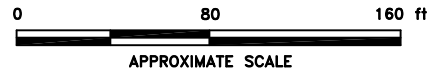
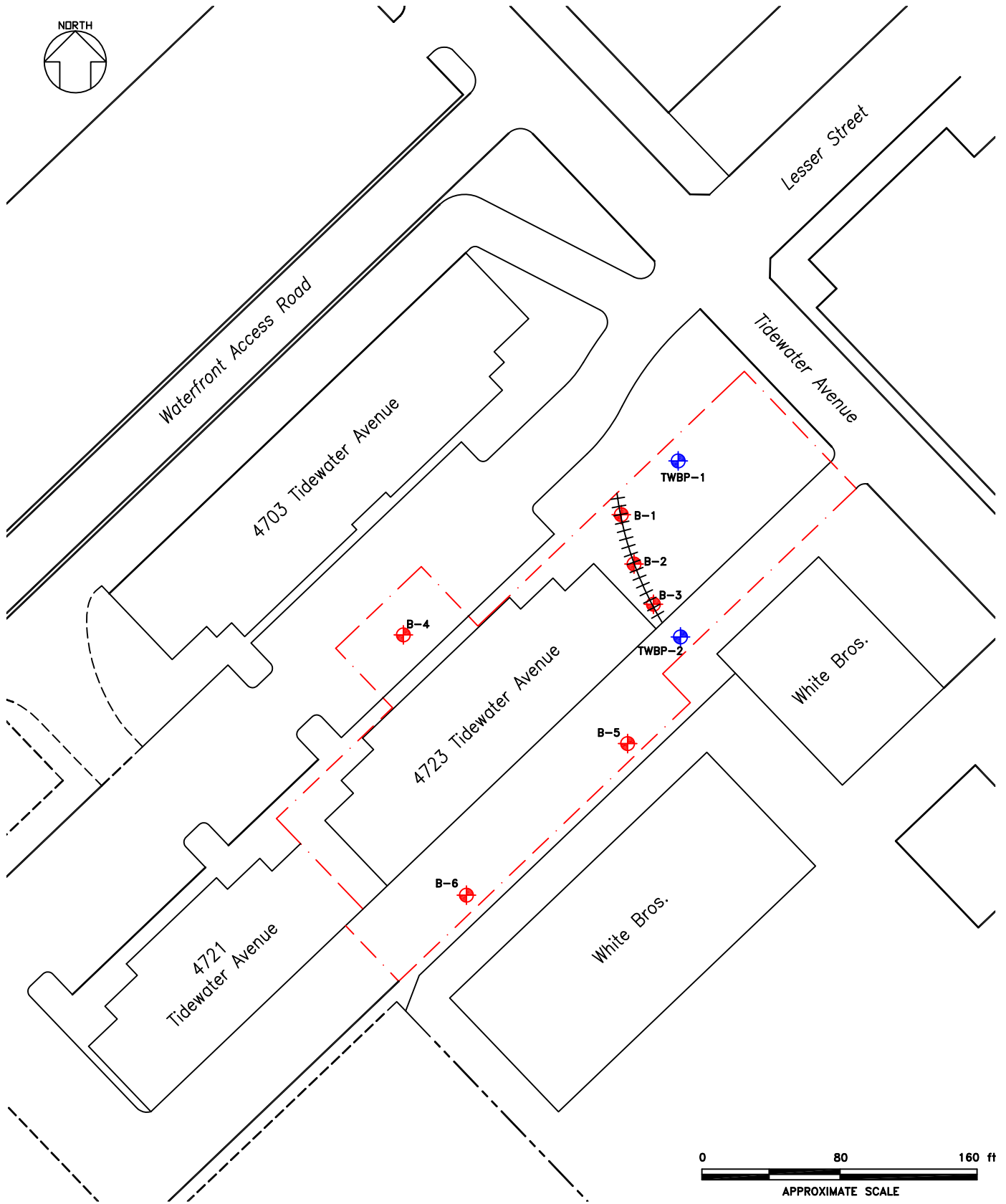
U.S.G.S. OAKLAND EAST,
CALIFORNIA, 7.5 MINUTE
SERIES TOPOGRAPHIC MAP,
DATED 1997.



*Information
To Build On
Engineering • Consulting • Testing*

4703 Tidewater Avenue, Suite B
Oakland, California 94601
(510) 434-9200

Project Name: MORGAN MUIR 4723 TIDEWATER AVENUE, OAKLAND, CALIFORNIA		Drawn By: S.R.	Date: 7/15	File No.: 872-001	Figure No.: 1
Title: SITE LOCATION MAP		Approved By: F.P.	Project No.: 575-872		



LEGEND

- SUBJECT PROPERTY BOUNDARY
- BORING LOCATION (7/29/15)
- PREVIOUS SOIL SAMPLE LOCATION (1988)

Information To Build On <i>Engineering • Consulting • Testing</i>		4703 Tidewater Avenue, Suite B Oakland, California 94601 (510) 434-9200			
Project Name: MORGAN MUIR 4723 TIDEWATER AVENUE, OAKLAND, CALIFORNIA		Drawn By: S.R.	Date: 8/15	File No.: 872-002	2
Title: SITE PLAN AND BORING LOCATION MAP		Approved By: F.P.	Project No.: 575-872		

TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS - ORGANICS
Tidewater Business Park
4723 Tidewater Avenue, Oakland, California

SAMPLE NUMBER	SAMPLE MATRIX	DEPTH SAMPLED (FEET)	Total Petroleum Hydrocarbons as Gasoline	Total Petroleum Hydrocarbons as Diesel	Total Petroleum Hydrocarbons as Motor Oil	VOCs	SVOCs	PCBs
B-1-1.0	Soil	1.0	<10	<10	46	ND	ND	ND
B-2-1.0	Soil	1.0	<10	<10	<10	---	---	ND
B-3-1.0	Soil	1.0	<10	<10	<10	---	---	ND
B-3-5.0	Soil	5.0	<10	<10	<10	---	---	---
B-4-1.0	Soil	1.0	<10	<10	<10	---	---	---
B-5-1.0	Soil	1.0	<10	36	570	ND	ND	ND
B-5-2.5	Soil	2.5	<10	<10	<10	---	---	---
B-5-5.0	Soil	5.0	<10	<10	<10	---	---	---
B-6-1.0	Soil	1.0	<10	<10	110	ND	ND	ND
B-6-2.5	Soil	2.5	<10	65	630	---	---	---
B-6-5.0	Soil	5.0	<10	<10	<10	---	---	---
B-2	Groundwater	NA	<50	<50	<100	ND	8.9 Di-n-butyl phthalate	ND
B-4	Groundwater	NA	<50	<50	<100	ND	11 Tert butyl alcohol (TBA)	ND
B-5	Groundwater	NA	<50	<50	<100	ND	25 Di-n-butyl phthalate	ND
B-6	Groundwater	NA	<50	<50	<100	ND	29 Di-n-butyl phthalate	ND

Notes: Analytical results for soil are reported as total concentration in milligrams per kilogram (mg/kg)

Analytical results for water are reported as total concentration in micrograms per liter (µg/L)

< = not detected at presented laboratory reporting limit.

NA = Not applicable

ND = Not detected at laboratory reporting limits presented in Appendix D.

VOCs = Volatile Organic Compounds

SVOCs = Semi-Volatile Organic Compounds

PCBs = Polychlorinated Biphenyls

Soil and groundwater samples were collected on 7/29/2015

TABLE 2
SUMMARY OF ANALYTICAL RESULTS: METALS
Tidewater Business Park
4723 Tidewater Avenue, Oakland, California

SAMPLE NUMBER	SAMPLE MATRIX	DEPTH SAMPLED (FEET)	METALS																
			SB	AS	BA	BE	CD	CR	CO	CU	PB	HG	MO	NI	SE	AG	TL	V	ZN
B-1-1.0	Soil	1.0	<3.0	<5.0	72	<1.0	<1.0	5.8	5.0	26	<3.0	<0.1	<5.0	6.0	<5.0	<5.0	<2.0	27	28
B-2-1.0	Soil	1.0	<3.0	<5.0	150	<1.0	<1.0	28	10	28	<3.0	<0.1	<5.0	54	<5.0	<5.0	<2.0	22	38
B-3-1.0	Soil	1.0	<3.0	<5.0	120	<1.0	<1.0	26	8.3	23	<3.0	<0.1	<5.0	46	<5.0	<5.0	<2.0	20	34
B-5-1.0	Soil	1.0	<3.0	<5.0	94	<1.0	<1.0	16	5.5	20	41	0.11	<5.0	30	<5.0	<5.0	<2.0	25	150
B-6-1.0	Soil	1.0	<3.0	<5.0	85	<1.0	<1.0	21	6.9	15	32	<0.1	<5.0	33	<5.0	<5.0	<2.0	26	120
B-2	Groundwater	NA	<50	<50	90	<50	<50	<50	74	<50	<50	<0.5	<50	<50	<50	<50	<50	56	<50
B-4	Groundwater	NA	<50	<50	1,200	<50	<50	<50	<50	81	<50	<0.5	<50	88	<50	<50	<50	96	<50
B-5	Groundwater	NA	<50	<50	160	<50	<50	<50	<50	63	<50	<0.5	<50	<50	<50	<50	<50	50	<50
B-6	Groundwater	NA	<50	<50	110	<50	<50	<50	<50	<50	<50	<0.5	<50	<50	<50	<50	<50	58	<50
TTLC			500	500	10,000	75	100	500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC			15	5	100	0.75	1	5	80	25	5	0.2	350	20	1	5	7	24	250

Notes:

Depth is presented in feet below ground surface

< = not detected at presented laboratory reporting limit.

Metals are designated by their symbol on the periodic table of elements.

Analytical results for soil are reported as total concentration in milligrams per kilogram (mg/kg)

Analytical results for water are reported as total concentration in micrograms per liter (µg/L)

TTLC = Total Threshold Limit Concentraiton for soil

STLC = Soluble Threshold Limit Concentraiton for soil

APPENDIX A

DRILLING PERMITS

Alameda County Public Works Agency - Water Resources Well Permit



Public Works Agency
—Alameda County—

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

Application Approved on: 07/22/2015 By jamesy

Permit Numbers: W2015-0639
Permits Valid from 07/29/2015 to 07/29/2015

Application Id: 1436818549284
Site Location: 4723 Tidewater Avenue
Project Start Date: 07/29/2015
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site:Oakland

Completion Date:07/29/2015

Applicant: PSI - Frank Poss
4703 Tidewater Avenue, Suite B, Oakland, CA 94601

Phone: 510-750-3365

Property Owner: Morgan Muir
4723 Tidewater Avenue, Oakland, CA 94601

Phone: 510-434-9200

Client: ** same as Property Owner **

Receipt Number: WR2015-0356 Total Due: \$265.00
Payer Name : Frank Poss Total Amount Paid: \$265.00
Paid By: VISA PAID IN FULL

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 6 Boreholes
Driller: Cascade Drilling - Lic #: 938110 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2015-0639	07/22/2015	10/27/2015	6	3.00 in.	15.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
5. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

Alameda County Public Works Agency - Water Resources Well Permit

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

7. NOTE:

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

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

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

APPENDIX B

SAMPLING PROTOCOLS

FIELD PROCEDURES

I. ADVANCING OF SOIL BORINGS AND COLLECTION OF SAMPLES

The following procedures were used for advancing soil borings and collecting soil samples at the site:

1. Prior to the commencement of soil boring activities at the site, boring locations were marked with white paint. Underground Service Alert (USA) was contacted to identify underground utilities in the vicinity of the soil borings.
2. A State of California licensed drilling company conducted soil boring and sampling activities. The soil borings were advanced using the Geoprobe direct push method. Flush-threaded rods with a stainless steel sampler were advanced into the ground using a hydraulic press and percussion hammer. The opening of the sampler was sealed with a drive tip held in place by a threaded pin.
3. Soil samples were collected using a 1.2 meter (4-foot) long, 0.05 meter (2-inch) inside diameter macro-core stainless steel sampler. Soil samplers were washed between borings with Alconox soap followed by two deionized water rinses. The sampler was lined with clean acetate sleeves.
4. After the sampler was retrieved, the sleeves were extracted from the sampler without disturbing the sample. The ends of the sample were covered with Teflon™ sheets and capped with polyethylene end caps. The sample was labeled and placed in a zip-lock bag in a chilled cooler prior to delivery to the laboratory.
5. Soil samples were assigned identification numbers such as B-1-5, where B-1 indicates the boring designation and -5 indicates that the sample was collected from 5 feet bgs. The samples were labeled with the project number, date and time of sample collection, sampling depth, and client name.
6. Chain-of-custody procedures using chain-of-custody records were implemented during handling and transportation of the samples to the laboratory for analyses.
7. Boring logs were prepared for the soil borings under the supervision of a California-Registered Geologist. Soil from each sample was described in accordance with Unified Soil Classification System by a PSI geologist and recorded on a field-boring log. The data recorded on the logs were based on examination of soil samples retrieved in the tubes, and drilling conditions observed in the field. Boring logs include information regarding the location of each boring, geologic descriptions of materials encountered, occurrence of groundwater (if applicable) and photoionization detector (PID) measurements of the soil samples collected.

II. BACKFILL OF SOIL BORINGS

The following procedures were used to backfill the soil borings at the site:

1. Soil borings were backfilled to grade with Portland grout slurry. The slurry consisted of neat cement and 5% bentonite powder.

III. FIELD DOCUMENTATION OF SAMPLING PROCEDURES

The following outline describes the procedures followed by PSI for proper sampling documentation.

1. Sampling procedures were documented in field notes that contain:

1. Sample collection procedures
2. Date and time of collection
3. Date of shipping
4. Sample collection location
5. Sample identification number(s)
6. Intended analysis
7. Quality control samples
8. Sample preservation
9. Name of sampler
10. Any pertinent observations

2. Samples were labeled with the following information:

1. Sample designation number
2. Date and time sample was collected
3. Sampler's name
4. Sample preservatives (if required)
5. Project Name

3. The following was the sample designation system for the site:

For soil samples, the samples were labeled B-(Boring Number)-(Depth) (i.e. sample collected from boring B-1 at 5 feet would be B-1-5).

For groundwater samples, the samples were labeled B-(Boring Number)-W (i.e. sample collected from boring B-1 would be B-1-W).

4. Handling of the samples was documented on a chain of custody form, which included:

1. Project name
2. Site location
3. Signature of collector
4. Date and time of collection
5. Sample identification number
6. Number of containers in sample set
7. Description of sample and container
8. Name and signature of persons, and the companies or agencies they represent, who are involved in the chain of possession
9. Inclusive dates and times of possession
10. Analyses to be completed

APPENDIX C

SOIL BORING LOGS

SOIL BORING LOG

BORING NO: **B-1**

SHEET **1** OF **1**

CLIENT NAME: Morgan Muir - Tidewater
 PROJECT LOCATION: 4723 Tidewater Avenue, Oakland, California
 PROJECT NUMBER: 575-872 DATE: 7/29/2015
 DRILLING COMPANY: Cascade Drilling
 DRILLING METHOD: Geoprobe - Direct Push

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	DESCRIPTION	PID	REMARKS
0				organics		
1	1	6		Silty SAND, light brown	<1	
2	2	6		trace gravel		
3				Clayey SAND, brown	<1	
4						
5	3	6			<1	
6						
7						
8	4	6		Sandy CLAY, greenish gray	<1	
9						
10						
11						
12						
13						
14						
15						
16						
17						
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99						
100						

Reviewed By: Brand Burfield LOGGED BY: Samuelson Ramos

SOIL BORING LOG

BORING NO: **B-2**

SHEET **1** OF **1**

CLIENT NAME: Morgan Muir - Tidewater
 PROJECT LOCATION: 4723 Tidewater Avenue, Oakland, California
 PROJECT NUMBER: 575-872 DATE: 7/29/2015
 DRILLING COMPANY: Cascade Drilling
 DRILLING METHOD: Geoprobe - Direct Push

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
7/29/2015	stabilized	10

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN)	SAMPLE INTERVAL	DESCRIPTION	PID	REMARKS
				Organics		
	1	6		Silty SAND, brown	<1	
	2	6		Clayey SAND, brownish green	<1	
4						
	3	6			<1	
8						
	4	6		Sandy CLAY, gray	<1	
	5	6			<1	
12						
16				Clayey SAND		
				Sandy CLAY		
20						
24				End of boring at 22 feet below grade. Groundwater was not initially encountered - rose to 10 feet below grade. Borehole was backfilled with cement grout.		

Reviewed By: Brand Burfield

LOGGED BY: Samuelson Ramos

SOIL BORING LOG

BORING NO: **B-3**

SHEET **1** OF **1**

CLIENT NAME: Morgan Muir - Tidewater
 PROJECT LOCATION: 4723 Tidewater Avenue, Oakland, California
 PROJECT NUMBER: 575-872 DATE: 7/29/2015
 DRILLING COMPANY: Cascade Drilling
 DRILLING METHOD: Geoprobe - Direct Push

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN) SAMPLE INTERVAL	DESCRIPTION	PID	REMARKS
0			Organics		
1	1	6	Silty SAND, brown	<1	
2	2	6		<1	
4			Sandy CLAY, black		
3	3	6		<1	
8	4	6		<1	
8			End of boring at 8 feet below grade. Groundwater was not encountered. Borehole was backfilled with cement grout.		
12					
16					
20					
24					

Reviewed By: Brand Burfield

LOGGED BY: Samuelson Ramos

SOIL BORING LOG

BORING NO: **B-4**

SHEET **1** OF **1**

CLIENT NAME: Morgan Muir - Tidewater
 PROJECT LOCATION: 4723 Tidewater Avenue, Oakland, California
 PROJECT NUMBER: 575-872 DATE: 7/29/2015
 DRILLING COMPANY: Cascade Drilling
 DRILLING METHOD: Geoprobe - Direct Push

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
7/29/2015	initial	4

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN) SAMPLE INTERVAL	DESCRIPTION	PID	REMARKS
0					
1	1	6	Clayey SAND, olive gray	<1	
2	2	6	Sandy CLAY, greenish gray	<1	
3	3	6		<1	
4	4	6		<1	
5	5	6		<1	
6					
12			End of boring at 12 feet below grade. Groundwater was encountered at 4 feet below grade. Borehole was backfilled with cement grout.		
16					
20					
24					

Reviewed By: Brand Burfield LOGGED BY: Samuelson Ramos

SOIL BORING LOG

BORING NO:	B-5
SHEET	1 OF 1

CLIENT NAME: Morgan Muir - Tidewater	
PROJECT LOCATION: 4723 Tidewater Avenue, Oakland, California	
PROJECT NUMBER: 575-872	DATE: 7/29/2015
DRILLING COMPANY: Cascade Drilling	
DRILLING METHOD: Geoprobe - Direct Push	

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
7/29/2015	initial	7

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN) SAMPLE INTERVAL	DESCRIPTION	PID	REMARKS
0			Clayey SAND, brown	<1	
1	1	6			
2	2	6	Sandy CLAY, gray	<1	
3	3	6			
4					
7	4	6			
8					
9	5	6		<1	
10			End of boring at 12 feet below grade. Groundwater was encountered at 7 feet below grade. Borehole was backfilled with cement grout.		
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Reviewed By: Brand Burfield	LOGGED BY: Samuelson Ramos
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SOIL BORING LOG

BORING NO:	B-6
SHEET	1 OF 1

CLIENT NAME: Morgan Muir - Tidewater	
PROJECT LOCATION: 4723 Tidewater Avenue, Oakland, California	
PROJECT NUMBER: 575-872	DATE: 7/29/2015
DRILLING COMPANY: Cascade Drilling	
DRILLING METHOD: Geoprobe - Direct Push	

GROUNDWATER LEVELS

DATE	COMMENTS	DEPTH BGS
7/29/2015	initial	5

DEPTH (FEET)	SAMPLE NO.	RECOVERY (IN) SAMPLE INTERVAL	DESCRIPTION	PID	REMARKS
0			Clayey SAND, few gravel		
1	1	6		<1	
2	2	6	Sandy CLAY, dark brown	<1	
3	3	6		<1	
4					
5	4	6		<1	
6					
7	5	6		<1	
8					
9					
10			End of boring at 10 feet below grade.		
11			Groundwater was encountered at 5 feet below grade.		
12			Borehole was backfilled with cement grout.		
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Reviewed By: Brand Burfield	LOGGED BY: Samuelson Ramos
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APPENDIX D

LABORATORY RESULTS AND CHAIN-OF-CUSTODY RECORD



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

21 August 2015

Frank Poss
PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland, CA 94601
RE: Morgan Muir-Tidewater

Enclosed are the results of analyses for samples received by the laboratory on 07/31/15 08:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Katherine RunningCrane
Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1-1.0	T151838-01	Soil	07/29/15 00:00	07/31/15 08:25
B-2-1.0	T151838-02	Soil	07/29/15 00:00	07/31/15 08:25
B-3-1.0	T151838-03	Soil	07/29/15 00:00	07/31/15 08:25
B-3-5.0	T151838-04	Soil	07/29/15 00:00	07/31/15 08:25
B-4-1.0	T151838-05	Soil	07/29/15 00:00	07/31/15 08:25
B-5-1.0	T151838-06	Soil	07/29/15 00:00	07/31/15 08:25
B-6-1.0	T151838-07	Soil	07/29/15 00:00	07/31/15 08:25
B-2	T151838-08	Water	07/29/15 15:05	07/31/15 08:25
B-4	T151838-09	Water	07/29/15 08:40	07/31/15 08:25
B-5	T151838-10	Water	07/29/15 15:55	07/31/15 08:25
B-6	T151838-11	Water	07/29/15 15:00	07/31/15 08:25

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Morgan Muir-Tidewater
Project Number: 575-872
Project Manager: Frank Poss

Reported:
08/21/15 15:23

DETECTIONS SUMMARY

Sample ID: B-1-1.0

Laboratory ID: T151838-01

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C29-C40 (MORO)	46	10	mg/kg	EPA 8015C	SGEL
Barium	72	1.0	mg/kg	EPA 6010B	
Chromium	5.8	2.0	mg/kg	EPA 6010B	
Cobalt	5.0	2.0	mg/kg	EPA 6010B	
Copper	26	1.0	mg/kg	EPA 6010B	
Nickel	6.0	2.0	mg/kg	EPA 6010B	
Vanadium	27	5.0	mg/kg	EPA 6010B	
Zinc	28	1.0	mg/kg	EPA 6010B	

Sample ID: B-2-1.0

Laboratory ID: T151838-02

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	150	1.0	mg/kg	EPA 6010B	
Chromium	28	2.0	mg/kg	EPA 6010B	
Cobalt	10	2.0	mg/kg	EPA 6010B	
Copper	28	1.0	mg/kg	EPA 6010B	
Nickel	54	2.0	mg/kg	EPA 6010B	
Vanadium	22	5.0	mg/kg	EPA 6010B	
Zinc	38	1.0	mg/kg	EPA 6010B	

Sample ID: B-3-1.0

Laboratory ID: T151838-03

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	120	1.0	mg/kg	EPA 6010B	
Chromium	26	2.0	mg/kg	EPA 6010B	
Cobalt	8.3	2.0	mg/kg	EPA 6010B	
Copper	23	1.0	mg/kg	EPA 6010B	
Nickel	46	2.0	mg/kg	EPA 6010B	
Vanadium	20	5.0	mg/kg	EPA 6010B	
Zinc	34	1.0	mg/kg	EPA 6010B	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Morgan Muir-Tidewater
Project Number: 575-872
Project Manager: Frank Poss

Reported:
08/21/15 15:23

Sample ID: B-3-5.0

Laboratory ID: T151838-04

No Results Detected

Sample ID: B-4-1.0

Laboratory ID: T151838-05

No Results Detected

Sample ID: B-5-1.0

Laboratory ID: T151838-06

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C13-C28 (DRO)	36	10		mg/kg	EPA 8015C	SGEL
C29-C40 (MORO)	570	10		mg/kg	EPA 8015C	SGEL
Barium	94	1.0		mg/kg	EPA 6010B	
Chromium	16	2.0		mg/kg	EPA 6010B	
Cobalt	5.5	2.0		mg/kg	EPA 6010B	
Copper	20	1.0		mg/kg	EPA 6010B	
Lead	41	3.0		mg/kg	EPA 6010B	
Nickel	30	2.0		mg/kg	EPA 6010B	
Vanadium	25	5.0		mg/kg	EPA 6010B	
Zinc	150	1.0		mg/kg	EPA 6010B	
Mercury	0.11	0.10		mg/kg	EPA 7471A Soil	

Sample ID: B-6-1.0

Laboratory ID: T151838-07

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
C29-C40 (MORO)	110	10		mg/kg	EPA 8015C	SGEL
Barium	85	1.0		mg/kg	EPA 6010B	
Chromium	21	2.0		mg/kg	EPA 6010B	
Cobalt	6.9	2.0		mg/kg	EPA 6010B	
Copper	15	1.0		mg/kg	EPA 6010B	
Lead	32	3.0		mg/kg	EPA 6010B	
Nickel	33	2.0		mg/kg	EPA 6010B	
Vanadium	26	5.0		mg/kg	EPA 6010B	
Zinc	120	1.0		mg/kg	EPA 6010B	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Morgan Muir-Tidewater
Project Number: 575-872
Project Manager: Frank Poss

Reported:
08/21/15 15:23

Sample ID: B-2 Laboratory ID: T151838-08

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	90	50	ug/l	EPA 6010b	FILT
Copper	74	50	ug/l	EPA 6010b	FILT
Vanadium	56	50	ug/l	EPA 6010b	FILT
Di-n-butyl phthalate	8.9	5.0	ug/l	EPA 8270C	

Sample ID: B-4 Laboratory ID: T151838-09

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	1200	50	ug/l	EPA 6010b	FILT
Copper	81	50	ug/l	EPA 6010b	FILT
Nickel	88	50	ug/l	EPA 6010b	FILT
Vanadium	96	50	ug/l	EPA 6010b	FILT
Tert-butyl alcohol	11	10	ug/l	EPA 8260B	

Sample ID: B-5 Laboratory ID: T151838-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	160	50	ug/l	EPA 6010b	FILT
Copper	63	50	ug/l	EPA 6010b	FILT
Vanadium	50	50	ug/l	EPA 6010b	FILT
Di-n-butyl phthalate	25	5.0	ug/l	EPA 8270C	

Sample ID: B-6 Laboratory ID: T151838-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Barium	110	50	ug/l	EPA 6010b	FILT
Vanadium	58	50	ug/l	EPA 6010b	FILT
Di-n-butyl phthalate	29	5.0	ug/l	EPA 8270C	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-1-1.0
T151838-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5073029	07/30/15	08/01/15	EPA 8015C	SGEL
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	46	10	"	"	"	"	"	"	SGEL
Surrogate: <i>p</i> -Terphenyl		94.8 %	65-135		"	"	"	"	SGEL

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	5080429	08/04/15	08/05/15	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	72	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	5.8	2.0	"	"	"	"	"	"	
Cobalt	5.0	2.0	"	"	"	"	"	"	
Copper	26	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	6.0	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	27	5.0	"	"	"	"	"	"	
Zinc	28	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	5080108	08/01/15	08/04/15	EPA 7471A Soil	
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SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-1-1.0
T151838-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	5080111	08/01/15	08/05/15	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		64.9 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		58.3 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	5080708	08/10/15	08/10/15	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-1-1.0
T151838-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,4-Dichlorobenzene	ND	5.0	ug/kg	1	5080708	08/10/15	08/10/15	EPA 8260B	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-1-1.0
T151838-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	ND	5.0	ug/kg	1	5080708	08/10/15	08/10/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.4 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		114 %	95.7-135		"	"	"	"	
Surrogate: Toluene-d8		103 %	85.5-116		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	5081026	08/10/15	08/11/15	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-1-1.0
T151838-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	5081026	08/10/15	08/11/15	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B-1-1.0
T151838-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Hexachlorobenzene	ND	1500	ug/kg	1	5081026	08/10/15	08/11/15	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		60.1 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		66.4 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		67.8 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		76.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		102 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-dl4		100 %	29.1-130		"	"	"	"	

SunStar Laboratories, Inc.

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-2-1.0
T151838-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5073029	07/30/15	08/01/15	EPA 8015C	SGEL
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	SGEL
Surrogate: <i>p</i> -Terphenyl		95.3 %	65-135		"	"	"	"	SGEL

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	5080429	08/04/15	08/05/15	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	150	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	28	2.0	"	"	"	"	"	"	
Cobalt	10	2.0	"	"	"	"	"	"	
Copper	28	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	54	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	22	5.0	"	"	"	"	"	"	
Zinc	38	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	5080108	08/01/15	08/04/15	EPA 7471A Soil	
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B-2-1.0
T151838-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	5080111	08/01/15	08/05/15	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		69.7 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		67.6 %	35-140		"	"	"	"	

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B-3-1.0
T151838-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	5080429	08/04/15	08/05/15	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	120	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	26	2.0	"	"	"	"	"	"	
Cobalt	8.3	2.0	"	"	"	"	"	"	
Copper	23	1.0	"	"	"	"	"	"	
Lead	ND	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	46	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	20	5.0	"	"	"	"	"	"	
Zinc	34	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	5080108	08/01/15	08/04/15	EPA 7471A Soil	
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Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	5080111	08/01/15	08/05/15	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		68.8 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		64.0 %	35-140		"	"	"	"	

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B-3-5.0
T151838-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5073029	07/30/15	08/01/15	EPA 8015C	SGEL
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	SGEL
Surrogate: <i>p</i> -Terphenyl		96.4 %		65-135	"	"	"	"	SGEL

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B-4-1.0
T151838-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5073029	07/30/15	08/01/15	EPA 8015C	SGEL
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	SGEL
Surrogate: p-Terphenyl		91.6 %		65-135	"	"	"	"	SGEL

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B-5-1.0
T151838-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5073029	07/30/15	08/01/15	EPA 8015C	SGEL
C13-C28 (DRO)	36	10	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	570	10	"	"	"	"	"	"	SGEL
Surrogate: p-Terphenyl		91.4 %	65-135		"	"	"	"	SGEL

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	5081029	08/10/15	08/10/15	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	94	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	16	2.0	"	"	"	"	"	"	
Cobalt	5.5	2.0	"	"	"	"	"	"	
Copper	20	1.0	"	"	"	"	"	"	
Lead	41	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	30	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	25	5.0	"	"	"	"	"	"	
Zinc	150	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	0.11	0.10	mg/kg	1	5081030	08/10/15	08/11/15	EPA 7471A Soil	
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SunStar Laboratories, Inc.

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-5-1.0
T151838-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	5081028	08/10/15	08/11/15	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		78.7 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		69.9 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	5080708	08/10/15	08/10/15	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B-5-1.0
T151838-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,4-Dichlorobenzene	ND	5.0	ug/kg	1	5080708	08/10/15	08/10/15	EPA 8260B	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager



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B-5-1.0
T151838-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	ND	5.0	ug/kg	1	5080708	08/10/15	08/10/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.9 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		115 %	95.7-135		"	"	"	"	
Surrogate: Toluene-d8		104 %	85.5-116		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	5081026	08/10/15	08/11/15	EPA 8270C	
Phenol	ND	1000	"	"	"	"	"	"	
Aniline	ND	300	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B-5-1.0
T151838-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	5081026	08/10/15	08/11/15	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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B-5-1.0
T151838-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Hexachlorobenzene	ND	1500	ug/kg	1	5081026	08/10/15	08/11/15	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		57.0 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		53.7 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		63.6 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		68.5 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		74.4 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-dl4		68.9 %	29.1-130		"	"	"	"	

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B-6-1.0
T151838-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5073029	07/30/15	08/01/15	EPA 8015C	SGEL
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	110	10	"	"	"	"	"	"	SGEL
<i>Surrogate: p-Terphenyl</i>		93.2 %		65-135	"	"	"	"	SGEL

Metals by EPA 6010B

Antimony	ND	3.0	mg/kg	1	5081029	08/10/15	08/10/15	EPA 6010B	
Silver	ND	2.0	"	"	"	"	"	"	
Arsenic	ND	5.0	"	"	"	"	"	"	
Barium	85	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	2.0	"	"	"	"	"	"	
Chromium	21	2.0	"	"	"	"	"	"	
Cobalt	6.9	2.0	"	"	"	"	"	"	
Copper	15	1.0	"	"	"	"	"	"	
Lead	32	3.0	"	"	"	"	"	"	
Molybdenum	ND	5.0	"	"	"	"	"	"	
Nickel	33	2.0	"	"	"	"	"	"	
Selenium	ND	5.0	"	"	"	"	"	"	
Thallium	ND	2.0	"	"	"	"	"	"	
Vanadium	26	5.0	"	"	"	"	"	"	
Zinc	120	1.0	"	"	"	"	"	"	

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.10	mg/kg	1	5081030	08/10/15	08/11/15	EPA 7471A Soil	
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B-6-1.0
T151838-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	10	ug/kg	1	5081028	08/10/15	08/11/15	EPA 8082	
PCB-1221	ND	10	"	"	"	"	"	"	
PCB-1232	ND	10	"	"	"	"	"	"	
PCB-1242	ND	10	"	"	"	"	"	"	
PCB-1248	ND	10	"	"	"	"	"	"	
PCB-1254	ND	10	"	"	"	"	"	"	
PCB-1260	ND	10	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		94.5 %	35-140		"	"	"	"	
Surrogate: Decachlorobiphenyl		78.8 %	35-140		"	"	"	"	

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	5.0	ug/kg	1	5080708	08/10/15	08/10/15	EPA 8260B	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	5.0	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	5.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	

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B-6-1.0
T151838-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,4-Dichlorobenzene	ND	5.0	ug/kg	1	5080708	08/10/15	08/10/15	EPA 8260B	
Dichlorodifluoromethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-6-1.0
T151838-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	ND	5.0	ug/kg	1	5080708	08/10/15	08/10/15	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	10	"	"	"	"	"	"	
o-Xylene	ND	5.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	20	"	"	"	"	"	"	
Tert-butyl alcohol	ND	50	"	"	"	"	"	"	
Di-isopropyl ether	ND	20	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	20	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.8 %	81.2-123		"	"	"	"	
Surrogate: Dibromofluoromethane		118 %	95.7-135		"	"	"	"	
Surrogate: Toluene-d8		98.1 %	85.5-116		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	300	ug/kg	1	5081026	08/10/15	08/11/15	EPA 8270C	
Aniline	ND	300	"	"	"	"	"	"	
Phenol	ND	1000	"	"	"	"	"	"	
2-Chlorophenol	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	300	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	300	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	300	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	1000	"	"	"	"	"	"	
2-Methylnaphthalene	ND	300	"	"	"	"	"	"	
1-Methylnaphthalene	ND	300	"	"	"	"	"	"	
Acenaphthene	ND	300	"	"	"	"	"	"	
4-Nitrophenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrotoluene	ND	300	"	"	"	"	"	"	
Pentachlorophenol	ND	1000	"	"	"	"	"	"	
Pyrene	ND	300	"	"	"	"	"	"	
Acenaphthylene	ND	300	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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B-6-1.0
T151838-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anthracene	ND	300	ug/kg	1	5081026	08/10/15	08/11/15	EPA 8270C	
Benzo (a) anthracene	ND	300	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	300	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	1000	"	"	"	"	"	"	
Benzo (a) pyrene	ND	300	"	"	"	"	"	"	
Benzyl alcohol	ND	300	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	300	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	300	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	300	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	300	"	"	"	"	"	"	
4-Chloroaniline	ND	300	"	"	"	"	"	"	
2-Chloronaphthalene	ND	300	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	300	"	"	"	"	"	"	
Chrysene	ND	300	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	300	"	"	"	"	"	"	
Dibenzofuran	ND	300	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	300	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	300	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	300	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	1000	"	"	"	"	"	"	
Diethyl phthalate	ND	300	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	1000	"	"	"	"	"	"	
Dimethyl phthalate	ND	300	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	1000	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	1000	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	1000	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	300	"	"	"	"	"	"	
Fluoranthene	ND	300	"	"	"	"	"	"	
Fluorene	ND	300	"	"	"	"	"	"	

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B-6-1.0
T151838-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Hexachlorobenzene	ND	1500	ug/kg	1	5081026	08/10/15	08/11/15	EPA 8270C	
Hexachlorobutadiene	ND	300	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	1000	"	"	"	"	"	"	
Hexachloroethane	ND	300	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	300	"	"	"	"	"	"	
Isophorone	ND	300	"	"	"	"	"	"	
2-Methylphenol	ND	1000	"	"	"	"	"	"	
4-Methylphenol	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	300	"	"	"	"	"	"	
2-Nitroaniline	ND	300	"	"	"	"	"	"	
3-Nitroaniline	ND	300	"	"	"	"	"	"	
4-Nitroaniline	ND	300	"	"	"	"	"	"	
Nitrobenzene	ND	1000	"	"	"	"	"	"	
2-Nitrophenol	ND	1000	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	300	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	300	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	300	"	"	"	"	"	"	
Phenanthrene	ND	300	"	"	"	"	"	"	
Azobenzene	ND	300	"	"	"	"	"	"	
Pyridine	ND	300	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	1000	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	1000	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		62.9 %	15-121		"	"	"	"	
Surrogate: Phenol-d6		62.1 %	24-113		"	"	"	"	
Surrogate: Nitrobenzene-d5		70.4 %	21.3-119		"	"	"	"	
Surrogate: 2-Fluorobiphenyl		80.7 %	32.4-102		"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		103 %	18.1-105		"	"	"	"	
Surrogate: Terphenyl-dl4		101 %	29.1-130		"	"	"	"	

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-2
T151838-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	0.050	mg/l	1	5073101	07/31/15	07/31/15	EPA 8015C	SGEL
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	SGEL
Surrogate: <i>p</i> -Terphenyl		79.9 %		65-135	"	"	"	"	SGEL

Metals by EPA 6010B

Antimony	ND	50	ug/l	1	5080112	08/01/15	08/06/15	EPA 6010b	FILT
Silver	ND	50	"	"	"	"	"	"	FILT
Arsenic	ND	50	"	"	"	"	"	"	FILT
Barium	90	50	"	"	"	"	"	"	FILT
Beryllium	ND	50	"	"	"	"	"	"	FILT
Cadmium	ND	50	"	"	"	"	"	"	FILT
Chromium	ND	50	"	"	"	"	"	"	FILT
Cobalt	ND	50	"	"	"	"	"	"	FILT
Copper	74	50	"	"	"	"	"	"	FILT
Lead	ND	50	"	"	"	"	"	"	FILT
Molybdenum	ND	50	"	"	"	"	"	"	FILT
Nickel	ND	50	"	"	"	"	"	"	FILT
Selenium	ND	50	"	"	"	"	"	"	FILT
Thallium	ND	50	"	"	"	"	"	"	FILT
Vanadium	56	50	"	"	"	"	"	"	FILT
Zinc	ND	50	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.50	ug/l	1	5080110	08/01/15	08/06/15	EPA 7470A Water	FILT
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B-2
T151838-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	2.00	ug/l	1	5080606	08/06/15	08/07/15	EPA 8082	O-05
PCB-1221	ND	2.00	"	"	"	"	"	"	O-05
PCB-1232	ND	2.00	"	"	"	"	"	"	O-05
PCB-1242	ND	2.00	"	"	"	"	"	"	O-05
PCB-1248	ND	2.00	"	"	"	"	"	"	O-05
PCB-1254	ND	2.00	"	"	"	"	"	"	O-05
PCB-1260	ND	2.00	"	"	"	"	"	"	O-05
Surrogate: Tetrachloro-meta-xylene		88.3 %	35-140		"	"	"	"	O-05
Surrogate: Decachlorobiphenyl		90.1 %	35-140		"	"	"	"	O-05

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	5073107	07/31/15	08/04/15	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	

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B-2
T151838-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,4-Dichlorobenzene	ND	1.0	ug/l	1	5073107	07/31/15	08/04/15	EPA 8260B	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

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B-2
T151838-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	ND	1.0	ug/l	1	5073107	07/31/15	08/04/15	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		97.4 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	88.8-117		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	10	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Aniline	ND	10	"	"	"	"	"	"	
Phenol	ND	10	"	"	"	"	"	"	
Acenaphthylene	ND	10	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1-Methylnaphthalene	ND	10	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10	"	"	"	"	"	"	
2-Methylnaphthalene	ND	20	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10	"	"	"	"	"	"	
Acenaphthene	ND	10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	

SunStar Laboratories, Inc.

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Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-2
T151838-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (k) fluoranthene	ND	10	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
2,4-Dinitrotoluene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	20	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Benzyl alcohol	ND	50	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	20	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10	"	"	"	"	"	"	
4-Chloroaniline	ND	20	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	20	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	20	"	"	"	"	"	"	
Di-n-butyl phthalate	8.9	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	
Diethyl phthalate	ND	10	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	20	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-2
T151838-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Hexachlorobenzene	ND	20	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	20	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	10	"	"	"	"	"	"	
2-Methylphenol	ND	10	"	"	"	"	"	"	
4-Methylphenol	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10	"	"	"	"	"	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	20	"	"	"	"	"	"	
Nitrobenzene	ND	20	"	"	"	"	"	"	
2-Nitrophenol	ND	10	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	25	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	20	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
1,4-Dinitrobenzene	ND	10	"	"	"	"	"	"	
Pyridine	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		33.4 %	15-121	"	"	"	"	"	
Surrogate: Phenol-d6		23.5 %	24-113	"	"	"	"	"	S-GC
Surrogate: Nitrobenzene-d5		69.6 %	14.7-110	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.8 %	33.3-110	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		104 %	12.9-110	"	"	"	"	"	
Surrogate: Terphenyl-dl4		152 %	15.8-136	"	"	"	"	"	S-GC

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Katherine RunningCrane, Project Manager



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B-4
T151838-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	0.050	mg/l	1	5073101	07/31/15	07/31/15	EPA 8015C	SGEL
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	SGEL
Surrogate: p-Terphenyl		83.0 %	65-135		"	"	"	"	SGEL

Metals by EPA 6010B

Antimony	ND	50	ug/l	1	5080112	08/01/15	08/06/15	EPA 6010b	FILT
Silver	ND	50	"	"	"	"	"	"	FILT
Arsenic	ND	50	"	"	"	"	"	"	FILT
Barium	1200	50	"	"	"	"	"	"	FILT
Beryllium	ND	50	"	"	"	"	"	"	FILT
Cadmium	ND	50	"	"	"	"	"	"	FILT
Chromium	ND	50	"	"	"	"	"	"	FILT
Cobalt	ND	50	"	"	"	"	"	"	FILT
Copper	81	50	"	"	"	"	"	"	FILT
Lead	ND	50	"	"	"	"	"	"	FILT
Molybdenum	ND	50	"	"	"	"	"	"	FILT
Nickel	88	50	"	"	"	"	"	"	FILT
Selenium	ND	50	"	"	"	"	"	"	FILT
Thallium	ND	50	"	"	"	"	"	"	FILT
Vanadium	96	50	"	"	"	"	"	"	FILT
Zinc	ND	50	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.50	ug/l	1	5080110	08/01/15	08/06/15	EPA 7470A Water	FILT
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B-4
T151838-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	2.00	ug/l	1	5080606	08/06/15	08/07/15	EPA 8082	O-05
PCB-1221	ND	2.00	"	"	"	"	"	"	O-05
PCB-1232	ND	2.00	"	"	"	"	"	"	O-05
PCB-1242	ND	2.00	"	"	"	"	"	"	O-05
PCB-1248	ND	2.00	"	"	"	"	"	"	O-05
PCB-1254	ND	2.00	"	"	"	"	"	"	O-05
PCB-1260	ND	2.00	"	"	"	"	"	"	O-05
Surrogate: Tetrachloro-meta-xylene		90.5 %	35-140		"	"	"	"	O-05
Surrogate: Decachlorobiphenyl		90.0 %	35-140		"	"	"	"	O-05

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	5073107	07/31/15	08/01/15	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	

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B-4
T151838-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,4-Dichlorobenzene	ND	1.0	ug/l	1	5073107	07/31/15	08/01/15	EPA 8260B	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

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B-4
T151838-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	ND	1.0	ug/l	1	5073107	07/31/15	08/01/15	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	11	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99.8 %	83.5-119		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	81-136		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.5 %	88.8-117		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	10	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Aniline	ND	10	"	"	"	"	"	"	
Phenol	ND	10	"	"	"	"	"	"	
Acenaphthylene	ND	10	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10	"	"	"	"	"	"	
1-Methylnaphthalene	ND	10	"	"	"	"	"	"	
2-Methylnaphthalene	ND	20	"	"	"	"	"	"	
Acenaphthene	ND	10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	

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B-4
T151838-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,4-Dinitrotoluene	ND	10	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	20	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Benzyl alcohol	ND	50	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	20	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10	"	"	"	"	"	"	
4-Chloroaniline	ND	20	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	20	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	20	"	"	"	"	"	"	
Di-n-butyl phthalate	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	
Diethyl phthalate	ND	10	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	20	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	

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B-4
T151838-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Hexachlorobenzene	ND	20	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	20	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	10	"	"	"	"	"	"	
2-Methylphenol	ND	10	"	"	"	"	"	"	
4-Methylphenol	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10	"	"	"	"	"	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	20	"	"	"	"	"	"	
Nitrobenzene	ND	20	"	"	"	"	"	"	
2-Nitrophenol	ND	10	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	25	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	20	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
1,4-Dinitrobenzene	ND	10	"	"	"	"	"	"	
Pyridine	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		24.0 %	15-121	"	"	"	"	"	
Surrogate: Phenol-d6		18.1 %	24-113	"	"	"	"	"	S-GC
Surrogate: Nitrobenzene-d5		59.3 %	14.7-110	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		64.4 %	33.3-110	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		91.0 %	12.9-110	"	"	"	"	"	
Surrogate: Terphenyl-dl4		135 %	15.8-136	"	"	"	"	"	

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B-5
T151838-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	0.050	mg/l	1	5073101	07/31/15	07/31/15	EPA 8015C	SGEL
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	SGEL
Surrogate: <i>p</i> -Terphenyl		89.2 %	65-135		"	"	"	"	SGEL

Metals by EPA 6010B

Antimony	ND	50	ug/l	1	5080112	08/01/15	08/06/15	EPA 6010b	FILT
Silver	ND	50	"	"	"	"	"	"	FILT
Arsenic	ND	50	"	"	"	"	"	"	FILT
Barium	160	50	"	"	"	"	"	"	FILT
Beryllium	ND	50	"	"	"	"	"	"	FILT
Cadmium	ND	50	"	"	"	"	"	"	FILT
Chromium	ND	50	"	"	"	"	"	"	FILT
Cobalt	ND	50	"	"	"	"	"	"	FILT
Copper	63	50	"	"	"	"	"	"	FILT
Lead	ND	50	"	"	"	"	"	"	FILT
Molybdenum	ND	50	"	"	"	"	"	"	FILT
Nickel	ND	50	"	"	"	"	"	"	FILT
Selenium	ND	50	"	"	"	"	"	"	FILT
Thallium	ND	50	"	"	"	"	"	"	FILT
Vanadium	50	50	"	"	"	"	"	"	FILT
Zinc	ND	50	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.50	ug/l	1	5080110	08/01/15	08/06/15	EPA 7470A Water	FILT
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B-5
T151838-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	2.00	ug/l	1	5080606	08/06/15	08/07/15	EPA 8082	O-05
PCB-1221	ND	2.00	"	"	"	"	"	"	O-05
PCB-1232	ND	2.00	"	"	"	"	"	"	O-05
PCB-1242	ND	2.00	"	"	"	"	"	"	O-05
PCB-1248	ND	2.00	"	"	"	"	"	"	O-05
PCB-1254	ND	2.00	"	"	"	"	"	"	O-05
PCB-1260	ND	2.00	"	"	"	"	"	"	O-05
Surrogate: Tetrachloro-meta-xylene		93.5 %	35-140		"	"	"	"	O-05
Surrogate: Decachlorobiphenyl		86.7 %	35-140		"	"	"	"	O-05

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	5073107	07/31/15	08/01/15	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	

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Katherine RunningCrane, Project Manager



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B-5
T151838-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,4-Dichlorobenzene	ND	1.0	ug/l	1	5073107	07/31/15	08/01/15	EPA 8260B	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

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B-5
T151838-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	ND	1.0	ug/l	1	5073107	07/31/15	08/01/15	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.4 %		83.5-119	"	"	"	"	
Surrogate: Dibromofluoromethane		95.6 %		81-136	"	"	"	"	
Surrogate: Toluene-d8		100 %		88.8-117	"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	10	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Phenol	ND	10	"	"	"	"	"	"	
Aniline	ND	10	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
Acenaphthylene	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	20	"	"	"	"	"	"	
1-Methylnaphthalene	ND	10	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10	"	"	"	"	"	"	
Acenaphthene	ND	10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	

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B-5
T151838-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

2,4-Dinitrotoluene	ND	10	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Benzo (k) fluoranthene	ND	10	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	20	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Benzyl alcohol	ND	50	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	20	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10	"	"	"	"	"	"	
4-Chloroaniline	ND	20	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	20	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	20	"	"	"	"	"	"	
Di-n-butyl phthalate	25	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	
Diethyl phthalate	ND	10	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	20	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	

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B-5
T151838-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Hexachlorobenzene	ND	20	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	20	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	10	"	"	"	"	"	"	
2-Methylphenol	ND	10	"	"	"	"	"	"	
4-Methylphenol	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10	"	"	"	"	"	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	20	"	"	"	"	"	"	
Nitrobenzene	ND	20	"	"	"	"	"	"	
2-Nitrophenol	ND	10	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	25	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	20	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
1,4-Dinitrobenzene	ND	10	"	"	"	"	"	"	
Pyridine	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		27.5 %	15-121	"	"	"	"	"	
Surrogate: Phenol-d6		21.2 %	24-113	"	"	"	"	"	S-GC
Surrogate: Nitrobenzene-d5		64.9 %	14.7-110	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		72.4 %	33.3-110	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		92.4 %	12.9-110	"	"	"	"	"	
Surrogate: Terphenyl-dl4		137 %	15.8-136	"	"	"	"	"	S-GC

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B-6
T151838-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	0.050	mg/l	1	5073101	07/31/15	07/31/15	EPA 8015C	SGEL
C13-C28 (DRO)	ND	0.050	"	"	"	"	"	"	SGEL
C29-C40 (MORO)	ND	0.10	"	"	"	"	"	"	SGEL
Surrogate: p-Terphenyl		83.2 %	65-135		"	"	"	"	SGEL

Metals by EPA 6010B

Antimony	ND	50	ug/l	1	5080112	08/01/15	08/06/15	EPA 6010b	FILT
Silver	ND	50	"	"	"	"	"	"	FILT
Arsenic	ND	50	"	"	"	"	"	"	FILT
Barium	110	50	"	"	"	"	"	"	FILT
Beryllium	ND	50	"	"	"	"	"	"	FILT
Cadmium	ND	50	"	"	"	"	"	"	FILT
Chromium	ND	50	"	"	"	"	"	"	FILT
Cobalt	ND	50	"	"	"	"	"	"	FILT
Copper	ND	50	"	"	"	"	"	"	FILT
Lead	ND	50	"	"	"	"	"	"	FILT
Molybdenum	ND	50	"	"	"	"	"	"	FILT
Nickel	ND	50	"	"	"	"	"	"	FILT
Selenium	ND	50	"	"	"	"	"	"	FILT
Thallium	ND	50	"	"	"	"	"	"	FILT
Vanadium	58	50	"	"	"	"	"	"	FILT
Zinc	ND	50	"	"	"	"	"	"	FILT

Cold Vapor Extraction EPA 7470/7471

Mercury	ND	0.50	ug/l	1	5080110	08/01/15	08/06/15	EPA 7470A Water	FILT
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Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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B-6
T151838-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Polychlorinated Biphenyls by EPA Method 8082

PCB-1016	ND	2.00	ug/l	1	5080606	08/06/15	08/07/15	EPA 8082	O-05
PCB-1221	ND	2.00	"	"	"	"	"	"	O-05
PCB-1232	ND	2.00	"	"	"	"	"	"	O-05
PCB-1242	ND	2.00	"	"	"	"	"	"	O-05
PCB-1248	ND	2.00	"	"	"	"	"	"	O-05
PCB-1254	ND	2.00	"	"	"	"	"	"	O-05
PCB-1260	ND	2.00	"	"	"	"	"	"	O-05
Surrogate: Tetrachloro-meta-xylene		88.3 %	35-140		"	"	"	"	O-05
Surrogate: Decachlorobiphenyl		89.4 %	35-140		"	"	"	"	O-05

Volatile Organic Compounds by EPA Method 8260B

Bromobenzene	ND	1.0	ug/l	1	5073107	07/31/15	08/01/15	EPA 8260B	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	

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B-6
T151838-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

1,4-Dichlorobenzene	ND	1.0	ug/l	1	5073107	07/31/15	08/01/15	EPA 8260B	
Dichlorodifluoromethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.50	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	
Methylene chloride	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	

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B-6
T151838-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride	ND	1.0	ug/l	1	5073107	07/31/15	08/01/15	EPA 8260B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	0.50	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	2.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	10	"	"	"	"	"	"	
Di-isopropyl ether	ND	2.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	2.0	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.0 %	83.5-119		"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	81-136		"	"	"	"	
Surrogate: Toluene-d8		95.9 %	88.8-117		"	"	"	"	

Semivolatile Organic Compounds by EPA Method 8270C

Carbazole	ND	10	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Phenol	ND	10	"	"	"	"	"	"	
Aniline	ND	10	"	"	"	"	"	"	
Acenaphthylene	ND	10	"	"	"	"	"	"	
2-Chlorophenol	ND	10	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	10	"	"	"	"	"	"	
N-Nitrosodi-n-propylamine	ND	5.0	"	"	"	"	"	"	
Anthracene	ND	10	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
2-Methylnaphthalene	ND	20	"	"	"	"	"	"	
1-Methylnaphthalene	ND	10	"	"	"	"	"	"	
4-Chloro-3-methylphenol	ND	10	"	"	"	"	"	"	
Benzo (a) anthracene	ND	10	"	"	"	"	"	"	
Acenaphthene	ND	10	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	10	"	"	"	"	"	"	
4-Nitrophenol	ND	10	"	"	"	"	"	"	

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B-6
T151838-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Benzo (k) fluoranthene	ND	10	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
2,4-Dinitrotoluene	ND	10	"	"	"	"	"	"	
Benzo (g,h,i) perylene	ND	20	"	"	"	"	"	"	
Pentachlorophenol	ND	10	"	"	"	"	"	"	
Pyrene	ND	10	"	"	"	"	"	"	
Benzo (a) pyrene	ND	10	"	"	"	"	"	"	
Benzyl alcohol	ND	50	"	"	"	"	"	"	
Bis(2-chloroethoxy)methane	ND	10	"	"	"	"	"	"	
Bis(2-chloroethyl)ether	ND	5.0	"	"	"	"	"	"	
Bis(2-chloroisopropyl)ether	ND	20	"	"	"	"	"	"	
Bis(2-ethylhexyl)phthalate	ND	10	"	"	"	"	"	"	
4-Bromophenyl phenyl ether	ND	5.0	"	"	"	"	"	"	
Butyl benzyl phthalate	ND	10	"	"	"	"	"	"	
4-Chloroaniline	ND	20	"	"	"	"	"	"	
2-Chloronaphthalene	ND	10	"	"	"	"	"	"	
4-Chlorophenyl phenyl ether	ND	20	"	"	"	"	"	"	
Chrysene	ND	10	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	10	"	"	"	"	"	"	
Dibenzofuran	ND	20	"	"	"	"	"	"	
Di-n-butyl phthalate	29	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
2,4-Dichlorophenol	ND	10	"	"	"	"	"	"	
Diethyl phthalate	ND	10	"	"	"	"	"	"	
2,4-Dimethylphenol	ND	5.0	"	"	"	"	"	"	
Dimethyl phthalate	ND	10	"	"	"	"	"	"	
4,6-Dinitro-2-methylphenol	ND	5.0	"	"	"	"	"	"	
2,4-Dinitrophenol	ND	10	"	"	"	"	"	"	
2,6-Dinitrotoluene	ND	20	"	"	"	"	"	"	
Di-n-octyl phthalate	ND	10	"	"	"	"	"	"	
Fluoranthene	ND	5.0	"	"	"	"	"	"	
Fluorene	ND	10	"	"	"	"	"	"	

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B-6
T151838-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Semivolatile Organic Compounds by EPA Method 8270C

Hexachlorobenzene	ND	20	ug/l	1	5080109	08/01/15	08/07/15	EPA 8270C	
Hexachlorobutadiene	ND	10	"	"	"	"	"	"	
Hexachlorocyclopentadiene	ND	20	"	"	"	"	"	"	
Hexachloroethane	ND	5.0	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	10	"	"	"	"	"	"	
Isophorone	ND	10	"	"	"	"	"	"	
2-Methylphenol	ND	10	"	"	"	"	"	"	
4-Methylphenol	ND	20	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
2-Nitroaniline	ND	10	"	"	"	"	"	"	
3-Nitroaniline	ND	10	"	"	"	"	"	"	
4-Nitroaniline	ND	20	"	"	"	"	"	"	
Nitrobenzene	ND	20	"	"	"	"	"	"	
2-Nitrophenol	ND	10	"	"	"	"	"	"	
N-Nitrosodiphenylamine	ND	10	"	"	"	"	"	"	
N-Nitrosodimethylamine	ND	25	"	"	"	"	"	"	
Phenanthrene	ND	10	"	"	"	"	"	"	
2,4,5-Trichlorophenol	ND	20	"	"	"	"	"	"	
2,4,6-Trichlorophenol	ND	10	"	"	"	"	"	"	
2,3,4,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
2,3,5,6-Tetrachlorophenol	ND	10	"	"	"	"	"	"	
1,4-Dinitrobenzene	ND	10	"	"	"	"	"	"	
Pyridine	ND	10	"	"	"	"	"	"	
Surrogate: 2-Fluorophenol		34.2 %	15-121	"	"	"	"	"	
Surrogate: Phenol-d6		24.6 %	24-113	"	"	"	"	"	
Surrogate: Nitrobenzene-d5		73.3 %	14.7-110	"	"	"	"	"	
Surrogate: 2-Fluorobiphenyl		79.4 %	33.3-110	"	"	"	"	"	
Surrogate: 2,4,6-Tribromophenol		101 %	12.9-110	"	"	"	"	"	
Surrogate: Terphenyl-dl4		145 %	15.8-136	"	"	"	"	"	S-GC

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5073029 - EPA 3550B GC

Blank (5073029-BLK1)		Prepared: 07/30/15 Analyzed: 08/01/15								
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							

<i>Surrogate: p-Terphenyl</i>	80.1		"	100		80.1	65-135			
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LCS (5073029-BS1)		Prepared: 07/30/15 Analyzed: 08/01/15								
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C13-C28 (DRO)	470	10	mg/kg	499		94.3	75-125			
<i>Surrogate: p-Terphenyl</i>	100		"	99.8		100	65-135			

Matrix Spike (5073029-MS1)		Source: T151830-05		Prepared: 07/30/15 Analyzed: 08/01/15						
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C13-C28 (DRO)	440	10	mg/kg	500	13	85.6	75-125			
<i>Surrogate: p-Terphenyl</i>	93.3		"	100		93.3	65-135			

Matrix Spike Dup (5073029-MSD1)		Source: T151830-05		Prepared: 07/30/15 Analyzed: 08/01/15						
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C13-C28 (DRO)	430	10	mg/kg	499	13	82.9	75-125	3.23	20	
<i>Surrogate: p-Terphenyl</i>	78.2		"	99.8		78.3	65-135			

Batch 5073101 - EPA 3510C GC

Blank (5073101-BLK1)		Prepared & Analyzed: 07/31/15								
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C6-C12 (GRO)	ND	0.50	mg/l							
C13-C28 (DRO)	ND	0.50	"							
C29-C40 (MORO)	ND	0.50	"							
<i>Surrogate: p-Terphenyl</i>	3.35		"	4.00		83.8	65-135			

LCS (5073101-BS1)		Prepared & Analyzed: 07/31/15								
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C13-C28 (DRO)	17.8	0.50	mg/l	20.0		88.8	75-125			
<i>Surrogate: p-Terphenyl</i>	3.41		"	4.00		85.1	65-135			

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5073101 - EPA 3510C GC

Matrix Spike (5073101-MS1)		Source: T151835-02			Prepared & Analyzed: 07/31/15					
C13-C28 (DRO)	17.9	0.50	mg/l	20.0	ND	89.3	75-125			
Surrogate: <i>p</i> -Terphenyl	3.38		"	4.00		84.4	65-135			
Matrix Spike Dup (5073101-MSD1)		Source: T151835-02			Prepared & Analyzed: 07/31/15					
C13-C28 (DRO)	18.0	0.50	mg/l	20.0	ND	89.9	75-125	0.718	20	
Surrogate: <i>p</i> -Terphenyl	2.76		"	4.00		68.9	65-135			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080112 - EPA 3010A

Blank (5080112-BLK1)

Prepared: 08/01/15 Analyzed: 08/06/15

Antimony	ND	50	ug/l							
Silver	ND	50	"							
Arsenic	ND	50	"							
Barium	ND	50	"							
Beryllium	ND	50	"							
Cadmium	ND	50	"							
Chromium	ND	50	"							
Cobalt	ND	50	"							
Copper	ND	50	"							
Lead	ND	50	"							
Molybdenum	ND	50	"							
Nickel	ND	50	"							
Selenium	ND	50	"							
Thallium	ND	50	"							
Vanadium	ND	50	"							
Zinc	ND	50	"							

LCS (5080112-BS1)

Prepared: 08/01/15 Analyzed: 08/06/15

Arsenic	563	50	ug/l	500		113	75-125			
Barium	575	50	"	500		115	75-125			
Cadmium	569	50	"	500		114	75-125			
Chromium	590	50	"	500		118	75-125			
Lead	602	50	"	500		120	75-125			

Matrix Spike (5080112-MS1)

Source: T151838-10

Prepared: 08/01/15 Analyzed: 08/06/15

Arsenic	578	50	ug/l	500	ND	116	75-125			
Barium	688	50	"	500	156	106	75-125			QM-05
Cadmium	525	50	"	500	ND	105	75-125			
Chromium	556	50	"	500	ND	111	75-125			
Lead	529	50	"	500	ND	106	75-125			

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080112 - EPA 3010A

Matrix Spike Dup (5080112-MSD1)

Source: T151838-10

Prepared: 08/01/15 Analyzed: 08/06/15

Arsenic	534	50	ug/l	500	ND	107	75-125	8.04	20	
Barium	692	50	"	500	156	107	75-125	0.668	20	QM-05
Cadmium	532	50	"	500	ND	106	75-125	1.32	20	
Chromium	561	50	"	500	ND	112	75-125	0.843	20	
Lead	531	50	"	500	ND	106	75-125	0.332	20	

Batch 5080429 - EPA 3051

Blank (5080429-BLK1)

Prepared: 08/04/15 Analyzed: 08/05/15

Antimony	ND	3.0	mg/kg							
Silver	ND	2.0	"							
Arsenic	ND	5.0	"							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	2.0	"							
Chromium	ND	2.0	"							
Cobalt	ND	2.0	"							
Copper	ND	1.0	"							
Lead	ND	3.0	"							
Molybdenum	ND	5.0	"							
Nickel	ND	2.0	"							
Selenium	ND	5.0	"							
Thallium	ND	2.0	"							
Vanadium	ND	5.0	"							
Zinc	ND	1.0	"							

LCS (5080429-BS1)

Prepared: 08/04/15 Analyzed: 08/05/15

Arsenic	104	5.0	mg/kg	100		104	75-125			
Barium	106	1.0	"	100		106	75-125			
Cadmium	104	2.0	"	100		104	75-125			
Chromium	108	2.0	"	100		108	75-125			
Lead	114	3.0	"	100		114	75-125			

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Katherine RunningCrane

Katherine RunningCrane, Project Manager



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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080429 - EPA 3051

Matrix Spike (5080429-MS1)	Source: T151838-01			Prepared: 08/04/15		Analyzed: 08/05/15	
Arsenic	106	5.0	mg/kg	100	ND	106	75-125
Barium	165	1.0	"	100	71.6	93.4	75-125
Cadmium	108	2.0	"	100	ND	108	75-125
Chromium	122	2.0	"	100	5.83	116	75-125
Lead	114	3.0	"	100	0.657	113	75-125

Matrix Spike Dup (5080429-MSD1)	Source: T151838-01			Prepared: 08/04/15		Analyzed: 08/05/15			
Arsenic	102	5.0	mg/kg	100	ND	102	75-125	3.93	20
Barium	186	1.0	"	100	71.6	115	75-125	12.2	20
Cadmium	109	2.0	"	100	ND	109	75-125	1.06	20
Chromium	122	2.0	"	100	5.83	116	75-125	0.236	20
Lead	116	3.0	"	100	0.657	115	75-125	1.58	20

Batch 5081029 - EPA 3051

Blank (5081029-BLK1)	Prepared & Analyzed: 08/10/15						
Antimony	ND	3.0	mg/kg				
Silver	ND	2.0	"				
Arsenic	ND	5.0	"				
Barium	ND	1.0	"				
Beryllium	ND	1.0	"				
Cadmium	ND	2.0	"				
Chromium	ND	2.0	"				
Cobalt	ND	2.0	"				
Copper	ND	1.0	"				
Lead	ND	3.0	"				
Molybdenum	ND	5.0	"				
Nickel	ND	2.0	"				
Selenium	ND	5.0	"				
Thallium	ND	2.0	"				
Vanadium	ND	5.0	"				
Zinc	ND	1.0	"				

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Metals by EPA 6010B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081029 - EPA 3051

LCS (5081029-BS1)

Prepared & Analyzed: 08/10/15

Arsenic	101	5.0	mg/kg	100		101	75-125			
Barium	104	1.0	"	100		104	75-125			
Cadmium	108	2.0	"	100		108	75-125			
Chromium	103	2.0	"	100		103	75-125			
Lead	98.8	3.0	"	100		98.8	75-125			

LCS Dup (5081029-BSD1)

Prepared & Analyzed: 08/10/15

Arsenic	108	5.0	mg/kg	100		108	75-125	6.93	20	
Barium	101	1.0	"	100		101	75-125	2.80	20	
Cadmium	103	2.0	"	100		103	75-125	4.58	20	
Chromium	101	2.0	"	100		101	75-125	1.74	20	
Lead	92.4	3.0	"	100		92.4	75-125	6.65	20	

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Cold Vapor Extraction EPA 7470/7471 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080108 - EPA 7471A Soil

Blank (5080108-BLK1)		Prepared: 08/01/15 Analyzed: 08/04/15								
Mercury	ND	0.10	mg/kg							
LCS (5080108-BS1)		Prepared: 08/01/15 Analyzed: 08/04/15								
Mercury	0.398	0.10	mg/kg	0.403		98.8	80-120			
Matrix Spike (5080108-MS1)		Source: T151839-16		Prepared: 08/01/15 Analyzed: 08/04/15						
Mercury	0.446	0.10	mg/kg	0.410	ND	109	75-125			
Matrix Spike Dup (5080108-MSD1)		Source: T151839-16		Prepared: 08/01/15 Analyzed: 08/04/15						
Mercury	0.0346	0.10	mg/kg	0.403	ND	8.57	75-125	171	20	QM-07

Batch 5080110 - EPA 7470A Water

Blank (5080110-BLK1)		Prepared: 08/01/15 Analyzed: 08/06/15								
Mercury	ND	0.50	ug/l							
LCS (5080110-BS1)		Prepared: 08/01/15 Analyzed: 08/06/15								
Mercury	4.85	0.50	ug/l	5.00		97.0	75-125			
Matrix Spike (5080110-MS1)		Source: T151838-11		Prepared: 08/01/15 Analyzed: 08/06/15						
Mercury	2.51	0.50	ug/l	5.00	0.0258	49.6	75-125			QM-05
Matrix Spike Dup (5080110-MSD1)		Source: T151838-11		Prepared: 08/01/15 Analyzed: 08/06/15						
Mercury	2.69	0.50	ug/l	5.00	0.0258	53.2	75-125	6.95	20	QM-05

Batch 5081030 - EPA 7471A Soil

Blank (5081030-BLK1)		Prepared: 08/10/15 Analyzed: 08/11/15								
Mercury	ND	0.10	mg/kg							

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Cold Vapor Extraction EPA 7470/7471 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081030 - EPA 7471A Soil

LCS (5081030-BS1)		Prepared: 08/10/15 Analyzed: 08/11/15								
Mercury	0.398	0.10	mg/kg	0.417		95.6	80-120			
LCS Dup (5081030-BSD1)		Prepared: 08/10/15 Analyzed: 08/11/15								
Mercury	0.365	0.10	mg/kg	0.417		87.7	80-120	8.60	20	

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080111 - EPA 3550 ECD/GCMS

Blank (5080111-BLK1)		Prepared: 08/01/15 Analyzed: 08/05/15								
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	7.63		"	9.98		76.5	35-140			
Surrogate: Decachlorobiphenyl	7.27		"	9.98		72.9	35-140			

LCS (5080111-BS1)		Prepared: 08/01/15 Analyzed: 08/05/15								
PCB-1016	113	10	ug/kg	99.7		113	40-130			
PCB-1260	118	10	"	99.7		118	40-130			
Surrogate: Tetrachloro-meta-xylene	5.92		"	9.97		59.3	35-140			
Surrogate: Decachlorobiphenyl	6.84		"	9.97		68.6	35-140			

Matrix Spike (5080111-MS1)		Source: T151838-02		Prepared: 08/01/15 Analyzed: 08/05/15						
PCB-1016	113	10	ug/kg	99.7	ND	113	40-130			
PCB-1260	122	10	"	99.7	ND	122	40-130			
Surrogate: Tetrachloro-meta-xylene	9.09		"	9.97		91.2	35-140			
Surrogate: Decachlorobiphenyl	7.66		"	9.97		76.9	35-140			

Matrix Spike Dup (5080111-MSD1)		Source: T151838-02		Prepared: 08/01/15 Analyzed: 08/05/15						
PCB-1016	107	10	ug/kg	99.5	ND	107	40-130	5.28	30	
PCB-1260	114	10	"	99.5	ND	114	40-130	6.72	30	
Surrogate: Tetrachloro-meta-xylene	7.64		"	9.95		76.8	35-140			
Surrogate: Decachlorobiphenyl	8.08		"	9.95		81.2	35-140			

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080606 - EPA 3510C GCMS/ECD

Blank (5080606-BLK1)		Prepared: 08/06/15 Analyzed: 08/07/15								
PCB-1016	ND	2.00	ug/l							
PCB-1221	ND	2.00	"							
PCB-1232	ND	2.00	"							
PCB-1242	ND	2.00	"							
PCB-1248	ND	2.00	"							
PCB-1254	ND	2.00	"							
PCB-1260	ND	2.00	"							
Surrogate: Tetrachloro-meta-xylene	0.710		"	1.00		71.0	35-140			
Surrogate: Decachlorobiphenyl	0.850		"	1.00		85.0	35-140			

LCS (5080606-BS1)		Prepared: 08/06/15 Analyzed: 08/07/15								
PCB-1016	12.9	2.00	ug/l	10.0		129	40-130			
PCB-1260	15.2	2.00	"	10.0		152	40-130			QM-13
Surrogate: Tetrachloro-meta-xylene	0.749		"	1.00		74.9	35-140			
Surrogate: Decachlorobiphenyl	0.904		"	1.00		90.4	35-140			

LCS Dup (5080606-BS1)		Prepared: 08/06/15 Analyzed: 08/07/15								
PCB-1016	12.9	2.00	ug/l	10.0		129	40-130	0.310	30	
PCB-1260	17.1	2.00	"	10.0		171	40-130	12.3	30	QM-13
Surrogate: Tetrachloro-meta-xylene	0.953		"	1.00		95.3	35-140			
Surrogate: Decachlorobiphenyl	0.884		"	1.00		88.4	35-140			

Batch 5081028 - EPA 3550 ECD/GCMS

Blank (5081028-BLK1)		Prepared: 08/10/15 Analyzed: 08/11/15								
PCB-1016	ND	10	ug/kg							
PCB-1221	ND	10	"							
PCB-1232	ND	10	"							
PCB-1242	ND	10	"							
PCB-1248	ND	10	"							
PCB-1254	ND	10	"							
PCB-1260	ND	10	"							
Surrogate: Tetrachloro-meta-xylene	8.91		"	9.99		89.2	35-140			
Surrogate: Decachlorobiphenyl	7.89		"	9.99		79.0	35-140			

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Katherine RunningCrane

Katherine RunningCrane, Project Manager

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Morgan Muir-Tidewater
Project Number: 575-872
Project Manager: Frank Poss

Reported:
08/21/15 15:23

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081028 - EPA 3550 ECD/GCMS

LCS (5081028-BS1)

Prepared: 08/10/15 Analyzed: 08/11/15

PCB-1016	86.4	10	ug/kg	99.8		86.6	40-130			
PCB-1260	93.1	10	"	99.8		93.3	40-130			
Surrogate: Tetrachloro-meta-xylene	9.02		"	9.98		90.4	35-140			
Surrogate: Decachlorobiphenyl	8.67		"	9.98		86.8	35-140			

Matrix Spike (5081028-MS1)

Source: T151797-34

Prepared: 08/10/15 Analyzed: 08/11/15

PCB-1016	110	10	ug/kg	99.7	ND	110	40-130			
PCB-1260	102	10	"	99.7	ND	103	40-130			
Surrogate: Tetrachloro-meta-xylene	7.60		"	9.97		76.2	35-140			
Surrogate: Decachlorobiphenyl	7.94		"	9.97		79.7	35-140			

Matrix Spike Dup (5081028-MSD1)

Source: T151797-34

Prepared: 08/10/15 Analyzed: 08/11/15

PCB-1016	108	10	ug/kg	99.8	ND	108	40-130	1.82	30	
PCB-1260	105	10	"	99.8	ND	106	40-130	2.98	30	
Surrogate: Tetrachloro-meta-xylene	7.55		"	9.98		75.6	35-140			
Surrogate: Decachlorobiphenyl	8.08		"	9.98		81.0	35-140			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5073107 - EPA 5030 GCMS

Blank (5073107-BLK1)

Prepared: 07/31/15 Analyzed: 08/01/15

Bromobenzene	ND	1.0	ug/l							
Bromochloromethane	ND	1.0	"							
Bromodichloromethane	ND	1.0	"							
Bromoform	ND	1.0	"							
Bromomethane	ND	1.0	"							
n-Butylbenzene	ND	1.0	"							
sec-Butylbenzene	ND	1.0	"							
tert-Butylbenzene	ND	1.0	"							
Carbon tetrachloride	ND	0.50	"							
Chlorobenzene	ND	1.0	"							
Chloroethane	ND	1.0	"							
Chloroform	ND	1.0	"							
Chloromethane	ND	1.0	"							
2-Chlorotoluene	ND	1.0	"							
4-Chlorotoluene	ND	1.0	"							
Dibromochloromethane	ND	1.0	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	1.0	"							
Dibromomethane	ND	1.0	"							
1,2-Dichlorobenzene	ND	1.0	"							
1,3-Dichlorobenzene	ND	1.0	"							
1,4-Dichlorobenzene	ND	1.0	"							
Dichlorodifluoromethane	ND	0.50	"							
1,1-Dichloroethane	ND	1.0	"							
1,2-Dichloroethane	ND	0.50	"							
1,1-Dichloroethene	ND	1.0	"							
cis-1,2-Dichloroethene	ND	1.0	"							
trans-1,2-Dichloroethene	ND	1.0	"							
1,2-Dichloropropane	ND	1.0	"							
1,3-Dichloropropane	ND	1.0	"							
2,2-Dichloropropane	ND	1.0	"							
1,1-Dichloropropene	ND	1.0	"							
cis-1,3-Dichloropropene	ND	0.50	"							
trans-1,3-Dichloropropene	ND	0.50	"							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5073107 - EPA 5030 GCMS

Blank (5073107-BLK1)

Prepared: 07/31/15 Analyzed: 08/01/15

p-Isopropyltoluene	ND	1.0	ug/l							
Methylene chloride	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
Tert-amyl methyl ether	ND	2.0	"							
Tert-butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	2.0	"							
Ethyl tert-butyl ether	ND	2.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Surrogate: 4-Bromofluorobenzene	7.54		"	8.00		94.2	83.5-119			
Surrogate: Dibromofluoromethane	8.02		"	8.00		100	81-136			
Surrogate: Toluene-d8	7.86		"	8.00		98.2	88.8-117			

LCS (5073107-BS1)

Prepared: 07/31/15 Analyzed: 08/01/15

Chlorobenzene	22.3	1.0	ug/l	20.0		111	75-125			
1,1-Dichloroethene	22.2	1.0	"	20.0		111	75-125			
Trichloroethene	20.9	1.0	"	20.0		104	75-125			
Surrogate: 4-Bromofluorobenzene	8.04		"	8.00		100	83.5-119			
Surrogate: Dibromofluoromethane	8.36		"	8.00		104	81-136			
Surrogate: Toluene-d8	8.09		"	8.00		101	88.8-117			

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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5073107 - EPA 5030 GCMS

LCS Dup (5073107-BSD1)

Prepared: 07/31/15 Analyzed: 08/01/15

Chlorobenzene	22.3	1.0	ug/l	20.0		111	75-125	0.0898	20	
1,1-Dichloroethene	22.9	1.0	"	20.0		114	75-125	3.15	20	
Trichloroethene	20.6	1.0	"	20.0		103	75-125	1.01	20	
Surrogate: 4-Bromofluorobenzene	8.02		"	8.00		100	83.5-119			
Surrogate: Dibromofluoromethane	8.73		"	8.00		109	81-136			
Surrogate: Toluene-d8	7.77		"	8.00		97.1	88.8-117			

Batch 5080708 - EPA 5030 GCMS

Blank (5080708-BLK1)

Prepared & Analyzed: 08/10/15

Bromobenzene	ND	5.0	ug/kg							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	5.0	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	5.0	"							
2-Chlorotoluene	ND	5.0	"							
4-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane	ND	5.0	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							

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Katherine RunningCrane, Project Manager



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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080708 - EPA 5030 GCMS

Blank (5080708-BLK1)

Prepared & Analyzed: 08/10/15

cis-1,2-Dichloroethene	ND	5.0	ug/kg							
trans-1,2-Dichloroethene	ND	5.0	"							
1,2-Dichloropropane	ND	5.0	"							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
Isopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							
1,2,4-Trimethylbenzene	ND	5.0	"							
Vinyl chloride	ND	5.0	"							
Benzene	ND	5.0	"							
Toluene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
m,p-Xylene	ND	10	"							
o-Xylene	ND	5.0	"							
Surrogate: 4-Bromofluorobenzene	37.4		"	40.0		93.6	81.2-123			
Surrogate: Dibromofluoromethane	35.6		"	40.0		89.0	95.7-135			S-GC

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Katherine RunningCrane, Project Manager



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Volatile Organic Compounds by EPA Method 8260B - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080708 - EPA 5030 GCMS

Blank (5080708-BLK1)

Prepared & Analyzed: 08/10/15

Surrogate: Toluene-d8	38.8		ug/kg	40.0		96.9	85.5-116			
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LCS (5080708-BS1)

Prepared & Analyzed: 08/10/15

Chlorobenzene	113	5.0	ug/kg	100		113	75-125			
1,1-Dichloroethene	113	5.0	"	100		113	75-125			
Trichloroethene	115	5.0	"	100		115	75-125			
Benzene	120	5.0	"	100		120	75-125			
Toluene	114	5.0	"	100		114	75-125			
Surrogate: 4-Bromofluorobenzene	40.2		"	40.0		101	81.2-123			
Surrogate: Dibromofluoromethane	40.4		"	40.0		101	95.7-135			
Surrogate: Toluene-d8	40.5		"	40.0		101	85.5-116			

LCS Dup (5080708-BSD1)

Prepared & Analyzed: 08/10/15

Chlorobenzene	108	5.0	ug/kg	100		108	75-125	4.52	20	
1,1-Dichloroethene	106	5.0	"	100		106	75-125	5.94	20	
Trichloroethene	114	5.0	"	100		114	75-125	1.09	20	
Benzene	110	5.0	"	100		110	75-125	8.00	20	
Toluene	108	5.0	"	100		108	75-125	4.87	20	
Surrogate: 4-Bromofluorobenzene	43.6		"	40.0		109	81.2-123			
Surrogate: Dibromofluoromethane	40.6		"	40.0		102	95.7-135			
Surrogate: Toluene-d8	40.7		"	40.0		102	85.5-116			

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080109 - EPA 3510C GCMS/ECD

Blank (5080109-BLK1)

Prepared: 08/01/15 Analyzed: 08/07/15

Carbazole	ND	10	ug/l							
Aniline	ND	10	"							
Phenol	ND	10	"							
2-Chlorophenol	ND	10	"							
Acenaphthylene	ND	10	"							
1,4-Dichlorobenzene	ND	10	"							
Anthracene	ND	10	"							
N-Nitrosodi-n-propylamine	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
4-Chloro-3-methylphenol	ND	10	"							
1-Methylnaphthalene	ND	10	"							
2-Methylnaphthalene	ND	20	"							
Acenaphthene	ND	10	"							
Benzo (a) anthracene	ND	10	"							
Benzo (b) fluoranthene	ND	10	"							
4-Nitrophenol	ND	10	"							
2,4-Dinitrotoluene	ND	10	"							
Benzo (k) fluoranthene	ND	10	"							
Benzo (g,h,i) perylene	ND	20	"							
Pentachlorophenol	ND	10	"							
Benzo (a) pyrene	ND	10	"							
Pyrene	ND	10	"							
Benzyl alcohol	ND	50	"							
Bis(2-chloroethoxy)methane	ND	10	"							
Bis(2-chloroethyl)ether	ND	5.0	"							
Bis(2-chloroisopropyl)ether	ND	20	"							
Bis(2-ethylhexyl)phthalate	ND	10	"							
4-Bromophenyl phenyl ether	ND	5.0	"							
Butyl benzyl phthalate	ND	10	"							
4-Chloroaniline	ND	20	"							
2-Chloronaphthalene	ND	10	"							
4-Chlorophenyl phenyl ether	ND	20	"							
Chrysene	ND	10	"							
Dibenz (a,h) anthracene	ND	10	"							
Dibenzofuran	ND	20	"							
Di-n-butyl phthalate	ND	5.0	"							

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080109 - EPA 3510C GCMS/ECD

Blank (5080109-BLK1)

Prepared: 08/01/15 Analyzed: 08/07/15

1,2-Dichlorobenzene	ND	5.0	ug/l							
1,3-Dichlorobenzene	ND	5.0	"							
2,4-Dichlorophenol	ND	10	"							
Diethyl phthalate	ND	10	"							
2,4-Dimethylphenol	ND	5.0	"							
Dimethyl phthalate	ND	10	"							
4,6-Dinitro-2-methylphenol	ND	5.0	"							
2,4-Dinitrophenol	ND	10	"							
2,6-Dinitrotoluene	ND	20	"							
Di-n-octyl phthalate	ND	10	"							
Fluoranthene	ND	5.0	"							
Fluorene	ND	10	"							
Hexachlorobenzene	ND	20	"							
Hexachlorobutadiene	ND	10	"							
Hexachlorocyclopentadiene	ND	20	"							
Hexachloroethane	ND	5.0	"							
Indeno (1,2,3-cd) pyrene	ND	10	"							
Isophorone	ND	10	"							
2-Methylphenol	ND	10	"							
4-Methylphenol	ND	20	"							
Naphthalene	ND	5.0	"							
2-Nitroaniline	ND	10	"							
3-Nitroaniline	ND	10	"							
4-Nitroaniline	ND	20	"							
Nitrobenzene	ND	20	"							
2-Nitrophenol	ND	10	"							
N-Nitrosodiphenylamine	ND	10	"							
N-Nitrosodimethylamine	ND	25	"							
Phenanthrene	ND	10	"							
2,4,5-Trichlorophenol	ND	20	"							
2,4,6-Trichlorophenol	ND	10	"							
2,3,4,6-Tetrachlorophenol	ND	10	"							
2,3,5,6-Tetrachlorophenol	ND	10	"							
1,4-Dinitrobenzene	ND	10	"							
Pyridine	ND	10	"							

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080109 - EPA 3510C GCMS/ECD

Blank (5080109-BLK1)

Prepared: 08/01/15 Analyzed: 08/07/15

Surrogate: 2-Fluorophenol	63.9		ug/l	200		31.9	15-121			
Surrogate: Phenol-d6	40.3		"	200		20.2	24-113			S-GC
Surrogate: Nitrobenzene-d5	128		"	200		64.2	14.7-110			
Surrogate: 2-Fluorobiphenyl	136		"	200		68.2	33.3-110			
Surrogate: 2,4,6-Tribromophenol	190		"	200		95.1	12.9-110			
Surrogate: Terphenyl-dl4	271		"	200		136	15.8-136			

LCS (5080109-BS1)

Prepared: 08/01/15 Analyzed: 08/07/15

Phenol	41.1	10	ug/l	200		20.6	12-89			
2-Chlorophenol	116	10	"	200		58.1	40-120			
1,4-Dichlorobenzene	90.6	10	"	200		45.3	33-94			
N-Nitrosodi-n-propylamine	115	5.0	"	200		57.6	40-120			
1,2,4-Trichlorobenzene	114	5.0	"	200		57.0	40-120			
4-Chloro-3-methylphenol	143	10	"	200		71.6	50-130			
Acenaphthene	122	10	"	200		61.2	50-130			
4-Nitrophenol	57.4	10	"	200		28.7	10-80			
2,4-Dinitrotoluene	98.8	10	"	200		49.4	24-96			
Pentachlorophenol	131	10	"	200		65.6	50-130			
Pyrene	164	10	"	200		82.2	26-127			
Surrogate: 2-Fluorophenol	69.0		"	200		34.5	15-121			
Surrogate: Phenol-d6	42.8		"	200		21.4	24-113			S-GC
Surrogate: Nitrobenzene-d5	132		"	200		66.1	14.7-110			
Surrogate: 2-Fluorobiphenyl	139		"	200		69.7	33.3-110			
Surrogate: 2,4,6-Tribromophenol	193		"	200		96.7	12.9-110			
Surrogate: Terphenyl-dl4	273		"	200		136	15.8-136			

Matrix Spike (5080109-MS1)

Source: T151838-08

Prepared: 08/01/15 Analyzed: 08/07/15

Phenol	39.7	10	ug/l	200	ND	19.9	12-89			
2-Chlorophenol	94.2	10	"	200	ND	47.1	40-120			
1,4-Dichlorobenzene	68.7	10	"	200	ND	34.4	33-94			
N-Nitrosodi-n-propylamine	89.3	5.0	"	200	ND	44.7	40-120			
1,2,4-Trichlorobenzene	86.8	5.0	"	200	ND	43.4	40-120			
4-Chloro-3-methylphenol	119	10	"	200	1.06	58.9	50-130			
Acenaphthene	96.3	10	"	200	ND	48.1	50-130			QM-07
4-Nitrophenol	7.96	10	"	200	ND	3.98	10-80			QM-07
2,4-Dinitrotoluene	73.3	10	"	200	ND	36.7	24-96			

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5080109 - EPA 3510C GCMS/ECD

Matrix Spike (5080109-MS1)	Source: T151838-08			Prepared: 08/01/15		Analyzed: 08/07/15				
Pentachlorophenol	32.7	10	ug/l	200	ND	16.3	50-130	27.0	42	QM-07
Pyrene	142	10	"	200	0.980	70.5	26-127	11.8	31	
Surrogate: 2-Fluorophenol	57.3		"	200		28.6	15-121			
Surrogate: Phenol-d6	41.6		"	200		20.8	24-113			S-GC
Surrogate: Nitrobenzene-d5	104		"	200		52.1	14.7-110			
Surrogate: 2-Fluorobiphenyl	118		"	200		59.2	33.3-110			
Surrogate: 2,4,6-Tribromophenol	167		"	200		83.6	12.9-110			
Surrogate: Terphenyl-dl4	232		"	200		116	15.8-136			

Matrix Spike Dup (5080109-MSD1)	Source: T151838-08			Prepared: 08/01/15		Analyzed: 08/07/15				
Phenol	30.3	10	ug/l	200	ND	15.1	12-89	27.0	42	
2-Chlorophenol	82.5	10	"	200	ND	41.2	40-120	13.2	40	
1,4-Dichlorobenzene	65.9	10	"	200	ND	33.0	33-94	4.19	28	
N-Nitrosodi-n-propylamine	92.7	5.0	"	200	ND	46.4	40-120	3.71	38	
1,2,4-Trichlorobenzene	89.0	5.0	"	200	ND	44.5	40-120	2.57	28	
4-Chloro-3-methylphenol	112	10	"	200	1.06	55.5	50-130	5.89	42	
Acenaphthene	106	10	"	200	ND	53.2	50-130	10.1	31	
4-Nitrophenol	8.80	10	"	200	ND	4.40	10-80	10.0	50	QM-07
2,4-Dinitrotoluene	84.5	10	"	200	ND	42.2	24-96	14.1	38	
Pentachlorophenol	31.4	10	"	200	ND	15.7	50-130	4.00	50	QM-07
Pyrene	160	10	"	200	0.980	79.3	26-127	11.8	31	
Surrogate: 2-Fluorophenol	38.5		"	200		19.2	15-121			
Surrogate: Phenol-d6	30.7		"	200		15.3	24-113			S-GC
Surrogate: Nitrobenzene-d5	106		"	200		53.0	14.7-110			
Surrogate: 2-Fluorobiphenyl	128		"	200		64.0	33.3-110			
Surrogate: 2,4,6-Tribromophenol	160		"	200		80.1	12.9-110			
Surrogate: Terphenyl-dl4	263		"	200		131	15.8-136			

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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081026 - EPA 3550 ECD/GCMS

Blank (5081026-BLK1)

Prepared: 08/10/15 Analyzed: 08/11/15

Carbazole	ND	300	ug/kg							
Aniline	ND	300	"							
Phenol	ND	1000	"							
2-Chlorophenol	ND	1000	"							
1,4-Dichlorobenzene	ND	300	"							
N-Nitrosodi-n-propylamine	ND	300	"							
1,2,4-Trichlorobenzene	ND	300	"							
4-Chloro-3-methylphenol	ND	1000	"							
1-Methylnaphthalene	ND	300	"							
2-Methylnaphthalene	ND	300	"							
Acenaphthene	ND	300	"							
4-Nitrophenol	ND	1000	"							
2,4-Dinitrotoluene	ND	300	"							
Pentachlorophenol	ND	1000	"							
Pyrene	ND	300	"							
Acenaphthylene	ND	300	"							
Anthracene	ND	300	"							
Benzo (a) anthracene	ND	300	"							
Benzo (b) fluoranthene	ND	300	"							
Benzo (k) fluoranthene	ND	300	"							
Benzo (g,h,i) perylene	ND	1000	"							
Benzo (a) pyrene	ND	300	"							
Benzyl alcohol	ND	300	"							
Bis(2-chloroethoxy)methane	ND	300	"							
Bis(2-chloroethyl)ether	ND	300	"							
Bis(2-chloroisopropyl)ether	ND	300	"							
Bis(2-ethylhexyl)phthalate	ND	300	"							
4-Bromophenyl phenyl ether	ND	300	"							
Butyl benzyl phthalate	ND	300	"							
4-Chloroaniline	ND	300	"							
2-Chloronaphthalene	ND	300	"							
4-Chlorophenyl phenyl ether	ND	300	"							
Chrysene	ND	300	"							
Dibenz (a,h) anthracene	ND	300	"							
Dibenzofuran	ND	300	"							
Di-n-butyl phthalate	ND	300	"							

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081026 - EPA 3550 ECD/GCMS

Blank (5081026-BLK1)

Prepared: 08/10/15 Analyzed: 08/11/15

1,2-Dichlorobenzene	ND	300	ug/kg							
1,3-Dichlorobenzene	ND	300	"							
2,4-Dichlorophenol	ND	1000	"							
Diethyl phthalate	ND	300	"							
2,4-Dimethylphenol	ND	1000	"							
Dimethyl phthalate	ND	300	"							
4,6-Dinitro-2-methylphenol	ND	1000	"							
2,4-Dinitrophenol	ND	1000	"							
2,6-Dinitrotoluene	ND	1000	"							
Di-n-octyl phthalate	ND	300	"							
Fluoranthene	ND	300	"							
Fluorene	ND	300	"							
Hexachlorobenzene	ND	1500	"							
Hexachlorobutadiene	ND	300	"							
Hexachlorocyclopentadiene	ND	1000	"							
Hexachloroethane	ND	300	"							
Indeno (1,2,3-cd) pyrene	ND	300	"							
Isophorone	ND	300	"							
2-Methylphenol	ND	1000	"							
4-Methylphenol	ND	1000	"							
Naphthalene	ND	300	"							
2-Nitroaniline	ND	300	"							
3-Nitroaniline	ND	300	"							
4-Nitroaniline	ND	300	"							
Nitrobenzene	ND	1000	"							
2-Nitrophenol	ND	1000	"							
N-Nitrosodimethylamine	ND	300	"							
N-Nitrosodiphenylamine	ND	300	"							
2,3,5,6-Tetrachlorophenol	ND	300	"							
2,3,4,6-Tetrachlorophenol	ND	300	"							
Phenanthrene	ND	300	"							
Azobenzene	ND	300	"							
2,4,5-Trichlorophenol	ND	1000	"							
Pyridine	ND	300	"							
2,4,6-Trichlorophenol	ND	1000	"							

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager



25712 Commercentre Drive
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PSI -- Oakland
 4703 Tidewater Ave Ste B
 Oakland CA, 94601

Project: Morgan Muir-Tidewater
 Project Number: 575-872
 Project Manager: Frank Poss

Reported:
 08/21/15 15:23

Semivolatile Organic Compounds by EPA Method 8270C - Quality Control

SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081026 - EPA 3550 ECD/GCMS

Blank (5081026-BLK1)

Prepared: 08/10/15 Analyzed: 08/11/15

Surrogate: 2-Fluorophenol	1840		ug/kg	3330		55.2	15-121			
Surrogate: Phenol-d6	2110		"	3330		63.3	24-113			
Surrogate: Nitrobenzene-d5	2250		"	3330		67.4	21.3-119			
Surrogate: 2-Fluorobiphenyl	2400		"	3330		72.0	32.4-102			
Surrogate: 2,4,6-Tribromophenol	2830		"	3330		85.0	18.1-105			
Surrogate: Terphenyl-dl4	3080		"	3330		92.6	29.1-130			

LCS (5081026-BS1)

Prepared: 08/10/15 Analyzed: 08/11/15

Phenol	2200	1000	ug/kg	3330		65.9	34-114			
2-Chlorophenol	2410	1000	"	3330		72.4	34-114			
1,4-Dichlorobenzene	2150	300	"	3330		64.4	34-114			
N-Nitrosodi-n-propylamine	2230	300	"	3330		67.0	30-110			
1,2,4-Trichlorobenzene	2730	300	"	3330		82.0	39-119			
4-Chloro-3-methylphenol	2720	1000	"	3330		81.5	50-130			
Acenaphthene	2370	300	"	3330		71.2	34-114			
Pentachlorophenol	1620	1000	"	3330		48.7	40-120			
Pyrene	2070	300	"	3330		62.0	30-110			
Surrogate: 2-Fluorophenol	2080		"	3330		62.4	15-121			
Surrogate: Phenol-d6	2340		"	3330		70.1	24-113			
Surrogate: Nitrobenzene-d5	2420		"	3330		72.7	21.3-119			
Surrogate: 2-Fluorobiphenyl	2680		"	3330		80.4	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3120		"	3330		93.5	18.1-105			
Surrogate: Terphenyl-dl4	3340		"	3330		100	29.1-130			

LCS Dup (5081026-BSD1)

Prepared: 08/10/15 Analyzed: 08/11/15

Phenol	2110	1000	ug/kg	3330		63.4	34-114	3.84	42	
2-Chlorophenol	2300	1000	"	3330		68.9	34-114	4.98	40	
1,4-Dichlorobenzene	2020	300	"	3330		60.7	34-114	5.95	28	
N-Nitrosodi-n-propylamine	2140	300	"	3330		64.2	30-110	4.41	38	
1,2,4-Trichlorobenzene	2680	300	"	3330		80.4	39-119	1.99	28	
4-Chloro-3-methylphenol	2640	1000	"	3330		79.1	50-130	2.98	42	
Acenaphthene	2350	300	"	3330		70.4	34-114	1.14	31	
Pentachlorophenol	1630	1000	"	3330		49.0	40-120	0.589	50	
Pyrene	2020	300	"	3330		60.7	30-110	2.25	31	
Surrogate: 2-Fluorophenol	1880		"	3330		56.5	15-121			
Surrogate: Phenol-d6	2220		"	3330		66.8	24-113			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager



25712 Commercentre Drive
 Lake Forest, California 92630
 949.297.5020 Phone
 949.297.5027 Fax

PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/21/15 15:23
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Semivolatile Organic Compounds by EPA Method 8270C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081026 - EPA 3550 ECD/GCMS

LCS Dup (5081026-BSD1)

Prepared: 08/10/15 Analyzed: 08/11/15

Surrogate: Nitrobenzene-d5	2350		ug/kg	3330		70.5	21.3-119			
Surrogate: 2-Fluorobiphenyl	2640		"	3330		79.2	32.4-102			
Surrogate: 2,4,6-Tribromophenol	3010		"	3330		90.2	18.1-105			
Surrogate: Terphenyl-d14	3240		"	3330		97.3	29.1-130			

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane

Katherine RunningCrane, Project Manager



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949.297.5027 Fax

PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Morgan Muir-Tidewater
Project Number: 575-872
Project Manager: Frank Poss

Reported:
08/21/15 15:23

Notes and Definitions

SGEL Sample extract was cleaned up with silica gel prior to analysis.

S-GC Surrogate recovery outside of established control limits. The data was accepted based on valid recovery of the remaining surrogate(s).

QM-13 Spike recovery for this analyte was bias high in the LCS and/or MS/MSD. Instrument blank, method blank and all samples were ND. No negative impact on data is expected.

QM-07 The spike recovery and or RPD was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.

O-05 This sample was extracted outside of the EPA recommended holding time.

FILT The sample was filtered prior to analysis.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

SunStar Laboratories, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Katherine RunningCrane, Project Manager

SunStar Laboratories, Inc.
 25712 Commercentre Dr
 Lake Forest, CA 92630
 949-297-5020

Chain of Custody Record

Client: PSI
 Address: 4703 TIDEWATER AVE, STE B, OAKLAND CA 94601
 Phone: 510 434 9200 Fax: 510 434 7670
 Project Manager: FRANK POSS

Date: 7/30/15 Page: 1 Of 1
 Project Name: Morgan Muir - Tidewater
 Collector: SAMUELSON RAMOS Client Project #: 575-872
 Batch #: T191838 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY *	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	8062 PCBs	Laboratory ID #	Comments/Preservative	Total # of containers		
B-1-1.0	7/29/15	-	SOIL	TUBE								XXXX	XXXX	XXXX	01				
B-2-1.0	↓		↓	↓								XXXX	XXXX	XXXX	02				
B-3-1.0														XXXX	XXXX	XXXX	03		
B-3-5.0														XXXX	XXXX	XXXX	04		
B-4-1.0														XXXX	XXXX	XXXX	05		
B-5-1.0														XXXX	XXXX	XXXX	06		
B-6-1.0														XXXX	XXXX	XXXX	07		
<hr/>																			
B-2	7/29/15	15:05	WATER	MULTI		XX						XX	XX	XX	08				
B-4	↓	8:40	↓	↓		XX						XX	XX	XX	09				
B-5		15:55												XX	XX	XX	10		
B-6		15:00												XX	XX	XX	11		
Relinquished by: (signature) <i>[Signature]</i> Date / Time <u>7/30/15 / 11:30</u>					Received by: (signature) <i>[Signature]</i> Date / Time <u>7/30/15 / 11:30</u>					Total # of containers				Notes ★ Silica Gel Cleanup					
Relinquished by: (signature) <i>[Signature]</i> Date / Time <u>7/31/15 17:15</u>					Received by: (signature) <i>[Signature]</i> Date / Time <u>8/50 ASBEN #108216363/364</u>					Chain of Custody seals Y/N/NA									
Relinquished by: (signature) <i>[Signature]</i> Date / Time <u>7-31-15 8:25</u>					Received by: (signature) <i>[Signature]</i> Date / Time <u>7-31-15 8:25</u>					Seals intact? Y/N/NA									
Sample disposal Instructions: Disposal @ \$2.00 each _____					Return to client _____					Received good condition/cold <u>2.5</u>				Turn around time: _____					

COC 133063

SAMPLE RECEIVING REVIEW SHEET

BATCH # T151838

Client Name: PSI

Project: MORGAN MUIR TIDEWATER

Received by: BRIAN

Date/Time Received: 7.31.15 8:25

Delivered by: Client SunStar Courier GSO FedEx Other _____

Total number of coolers received 2

Temp criteria = 6°C > 0°C (no **frozen** containers)

Temperature: cooler #1 2.7 °C +/- the CF (-0.2°C) = 2.5 °C corrected temperature

cooler #2 3.2 °C +/- the CF (-0.2°C) = 3.0 °C corrected temperature

cooler #3 _____ °C +/- the CF (-0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked

Cooler/Sample Review - Initials and date BC 7.31.15

Comments:

WORK ORDER

T151838

Client: PSI -- Oakland	Project Manager: Katherine RunningCrane
Project: Morgan Muir-Tidewater	Project Number: 575-872

Report To:
 PSI -- Oakland
 Frank Poss
 4703 Tidewater Ave Ste B
 Oakland, CA 94601

Date Due:	08/07/15 15:00 (5 day TAT)		
Received By:	Brian Charon	Date Received:	07/31/15 08:25
Logged In By:	Brian Charon	Date Logged In:	07/31/15 09:09

Samples Received at:	3°C		
Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirmed	Yes		

Analysis	Due	TAT	Expires	Comments
T151838-01 B-1-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	01/25/16 00:00	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/12/15 00:00	
T151838-02 B-2-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	01/25/16 00:00	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/12/15 00:00	
T151838-03 B-3-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	01/25/16 00:00	Filter and preserve
8082 PCB	08/07/15 15:00	5	08/12/15 00:00	
T151838-04 B-3-5.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
T151838-05 B-4-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up

WORK ORDER

T151838

Client: PSI -- Oakland	Project Manager: Katherine RunningCrane
Project: Morgan Muir-Tidewater	Project Number: 575-872

Analysis	Due	TAT	Expires	Comments
T151838-06 B-5-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
T151838-07 B-6-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
T151838-08 B-2 [Water] Sampled 07/29/15 15:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	01/25/16 15:05	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/05/15 15:05	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/05/15 15:05	
8260	08/07/15 15:00	5	08/12/15 15:05	+ OXY
8270C	08/07/15 15:00	5	08/12/15 15:05	
T151838-09 B-4 [Water] Sampled 07/29/15 08:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	01/25/16 08:40	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/05/15 08:40	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/05/15 08:40	
8260	08/07/15 15:00	5	08/12/15 08:40	+ OXY
8270C	08/07/15 15:00	5	08/12/15 08:40	
T151838-10 B-5 [Water] Sampled 07/29/15 15:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	01/25/16 15:55	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/05/15 15:55	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/05/15 15:55	
8260	08/07/15 15:00	5	08/12/15 15:55	+ OXY
8270C	08/07/15 15:00	5	08/12/15 15:55	
T151838-11 B-6 [Water] Sampled 07/29/15 15:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	01/25/16 15:00	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/05/15 15:00	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/05/15 15:00	
8260	08/07/15 15:00	5	08/12/15 15:00	+ OXY
8270C	08/07/15 15:00	5	08/12/15 15:00	

WORK ORDER

T151838

Client: PSI -- Oakland

Project Manager: Katherine RunningCrane

Project: Morgan Muir-Tidewater

Project Number: 575-872

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22

7470/71 Hg

WORK ORDER

T151838

Client: PSI -- Oakland
Project: Morgan Muir-Tidewater

Project Manager: Katherine RunningCrane
Project Number: 575-872

Report To:

PSI -- Oakland
 Frank Poss
 4703 Tidewater Ave Ste B
 Oakland, CA 94601

Date Due: 08/07/15 15:00 (5 day TAT)

Received By: Brian Charon

Date Received: 07/31/15 08:25

Logged In By: Brian Charon

Date Logged In: 07/31/15 09:09

Samples Received at: 3°C
 Custody Seals Yes Received On Ice Yes
 Containers Intact Yes
 COC/Labels Agree Yes
 Preservation Confir Yes

Analysis	Due	TAT	Expires	Comments
T151838-01 B-1-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	08/03/15 00:00	
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/12/15 00:00	
8260	08/11/15 15:00	1	08/12/15 00:00	+ OXY
8270C	08/11/15 15:00	1	08/12/15 00:00	
T151838-02 B-2-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	08/03/15 00:00	
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/12/15 00:00	
T151838-03 B-3-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	08/03/15 00:00	
8082 PCB	08/07/15 15:00	5	08/12/15 00:00	
T151838-04 B-3-5.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
T151838-05 B-4-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up

WORK ORDER

T151838

Client: PSI -- Oakland
Project: Morgan Muir-Tidewater

Project Manager: Katherine RunningCrane
Project Number: 575-872

Analysis	Due	TAT	Expires	Comments
T151838-06 B-5-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/11/15 15:00	1	01/25/16 00:00	
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
8082 PCB	08/11/15 15:00	1	08/12/15 00:00	
8260	08/11/15 15:00	1	08/12/15 00:00	+ OXY
8270C	08/11/15 15:00	1	08/12/15 00:00	
T151838-07 B-6-1.0 [Soil] Sampled 07/29/15 00:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/11/15 15:00	1	01/25/16 00:00	
8015 Carbon Chain	08/07/15 15:00	5	08/12/15 00:00	Silica Gel Clean-up
8082 PCB	08/11/15 15:00	1	08/12/15 00:00	
8260	08/11/15 15:00	1	08/12/15 00:00	+ OXY
8270C	08/11/15 15:00	1	08/12/15 00:00	
T151838-08 B-2 [Water] Sampled 07/29/15 15:05 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	08/03/15 15:05	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/05/15 15:05	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/05/15 15:05	
8260	08/07/15 15:00	5	08/12/15 15:05	+ OXY
8270C	08/07/15 15:00	5	08/12/15 15:05	
T151838-09 B-4 [Water] Sampled 07/29/15 08:40 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	08/03/15 08:40	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/05/15 08:40	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/05/15 08:40	
8260	08/07/15 15:00	5	08/12/15 08:40	+ OXY
8270C	08/07/15 15:00	5	08/12/15 08:40	
T151838-10 B-5 [Water] Sampled 07/29/15 15:55 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	08/03/15 15:55	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/05/15 15:55	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/05/15 15:55	
8260	08/07/15 15:00	5	08/12/15 15:55	+ OXY
8270C	08/07/15 15:00	5	08/12/15 15:55	

WORK ORDER

T151838

Client: PSI -- Oakland	Project Manager: Katherine RunningCrane
Project: Morgan Muir-Tidewater	Project Number: 575-872

Analysis	Due	TAT	Expires	Comments
T151838-11 B-6 [Water] Sampled 07/29/15 15:00 (GMT-08:00) Pacific Time (US &				
6010 Title 22	08/07/15 15:00	5	08/03/15 15:00	Filter and preserve
8015 Carbon Chain	08/07/15 15:00	5	08/05/15 15:00	Silica Gel Clean-up
8082 PCB	08/07/15 15:00	5	08/05/15 15:00	
8260	08/07/15 15:00	5	08/12/15 15:00	+ OXY
8270C	08/07/15 15:00	5	08/12/15 15:00	

Analysis groups included in this work order

6010 Title 22

subgroup 6010B T22	7470/71 Hg
--------------------	------------



25712 Commercentre Drive
Lake Forest, California 92630
949.297.5020 Phone
949.297.5027 Fax

13 August 2015

Frank Poss
PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland, CA 94601
RE: Morgan Muir-Tidewater

Enclosed are the results of analyses for samples received by the laboratory on 08/11/15 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Katherine RunningCrane
Project Manager



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Lake Forest, California 92630
949.297.5020 Phone
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PSI -- Oakland
4703 Tidewater Ave Ste B
Oakland CA, 94601

Project: Morgan Muir-Tidewater
Project Number: 575-872
Project Manager: Frank Poss

Reported:
08/13/15 15:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-5-2.5	T151933-01	Soil	07/29/15 00:00	08/11/15 08:30
B-5-5.0	T151933-02	Soil	07/29/15 00:00	08/11/15 08:30
B-6-2.5	T151933-03	Soil	07/29/15 00:00	08/11/15 08:30
B-6-5.0	T151933-04	Soil	07/29/15 00:00	08/11/15 08:30

SunStar Laboratories, Inc.

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/13/15 15:06
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B-5-2.5
T151933-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5081121	08/11/15	08/13/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		96.8 %		65-135	"	"	"	"	

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B-5-5.0
T151933-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5081121	08/11/15	08/13/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		96.5 %		65-135	"	"	"	"	

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PSI -- Oakland 4703 Tidewater Ave Ste B Oakland CA, 94601	Project: Morgan Muir-Tidewater Project Number: 575-872 Project Manager: Frank Poss	Reported: 08/13/15 15:06
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B-6-2.5
T151933-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5081121	08/11/15	08/13/15	EPA 8015C	
C13-C28 (DRO)	65	10	"	"	"	"	"	"	
C29-C40 (MORO)	630	10	"	"	"	"	"	"	
<i>Surrogate: p-Terphenyl</i>		<i>102 %</i>	<i>65-135</i>						

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B-6-5.0
T151933-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SunStar Laboratories, Inc.

Extractable Petroleum Hydrocarbons by 8015C

C6-C12 (GRO)	ND	10	mg/kg	1	5081121	08/11/15	08/13/15	EPA 8015C	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		96.3 %		65-135	"	"	"	"	

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Extractable Petroleum Hydrocarbons by 8015C - Quality Control
SunStar Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5081121 - EPA 3550B GC

Blank (5081121-BLK1)		Prepared: 08/11/15 Analyzed: 08/13/15								
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
Surrogate: p-Terphenyl	99.4		"	100		99.4	65-135			

LCS (5081121-BS1)		Prepared: 08/11/15 Analyzed: 08/13/15								
C13-C28 (DRO)	430	10	mg/kg	500		85.9	75-125			
Surrogate: p-Terphenyl	96.3		"	100		96.3	65-135			

Matrix Spike (5081121-MS1)		Source: T151837-22		Prepared: 08/11/15 Analyzed: 08/13/15						
C13-C28 (DRO)	470	10	mg/kg	500	55	82.5	75-125			
Surrogate: p-Terphenyl	90.8		"	100		90.8	65-135			

Matrix Spike Dup (5081121-MSD1)		Source: T151837-22		Prepared: 08/11/15 Analyzed: 08/13/15						
C13-C28 (DRO)	470	10	mg/kg	500	55	83.8	75-125	1.40	20	
Surrogate: p-Terphenyl	101		"	100		101	65-135			

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Project: Morgan Muir-Tidewater
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Project Manager: Frank Poss

Reported:
08/13/15 15:06

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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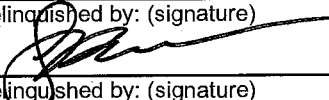
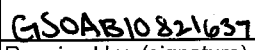
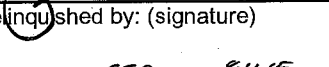
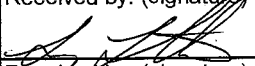
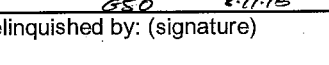
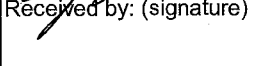
Katherine RunningCrane, Project Manager

Chain of Custody Record

Client: PSI
 Address: 4703 TIDEWATER AVE, Ste B, OAKLAND CA 94601
 Phone: 510 434 9200 Fax: 510 434 7676
 Project Manager: FRANK POSS

Date: 8/10/15 Page: 1 Of 1
 Project Name: MORGAN MUIR - TIDEWATER
 Collector: SAMUELSON RAMOS Client Project #: 575-872
 Batch #: 7151933 EDF #:

Sample ID	Date Sampled	Time	Sample Type	Container Type	8260	8260 + OXY	8260 BTEX, OXY only	8270	8021 BTEX	8015M (gasoline)	8015M (diesel)	8015M Ext./Carbon Chain	6010/7000 Title 22 Metals	6020 ICP-MS Metals	Laboratory ID #	Comments/Preservative	Total # of containers
B-5-2.5	7/29/15	—	SOIL	TUBE								<input checked="" type="checkbox"/>			01		
B-5-5.0	↓	—	↓	↓								<input checked="" type="checkbox"/>			02		
B-6-2.5	↓	—	↓	↓								<input checked="" type="checkbox"/>			03		
B-6-5.0	↓	—	↓	↓								<input checked="" type="checkbox"/>			04		

Relinquished by: (signature) 	Date / Time 8/10/15 / 11:00	Received by: (signature) 	Date / Time 8/10/15 / 11:30	Total # of containers Chain of Custody seals Y/N/NA Seals intact? Y/N/NA Received good condition/cold 1.5 Turn around time: 24 hour RUSH	Notes 24 hour RUSH
Relinquished by: (signature) 	Date / Time 8/11/15 / 8:30	Received by: (signature) 	Date / Time 8/11/15 / 8:30		
Relinquished by: (signature) 	Date / Time 8/11/15 / 8:30	Received by: (signature) 	Date / Time 8/11/15 / 8:30		

Sample disposal Instructions: Disposal @ \$2.00 each _____ Return to client _____ Pickup _____

COC 142203

SAMPLE RECEIVING REVIEW SHEET

BATCH # 7151923

Client Name: FBI - OAKLAND

Project: MORGAN MUIR - TIDEWATER

Received by: SUNNY

Date/Time Received: 8/11/15 / 8:30

Delivered by: Client SunStar Courier GSO FedEx Other _____

Total number of coolers received _____ **Temp criteria = 6°C > 0°C (no frozen containers)**

Temperature: cooler #1 2.0 °C +/- the CF (- 0.2°C) = 1.5 °C corrected temperature

cooler #2 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

cooler #3 _____ °C +/- the CF (- 0.2°C) = _____ °C corrected temperature

Samples outside temp. but received on ice, w/in 6 hours of final sampling. Yes No* N/A

Custody Seals Intact on Cooler/Sample Yes No* N/A

Sample Containers Intact Yes No*

Sample labels match COC ID's Yes No*

Total number of containers received match COC Yes No*

Proper containers received for analyses requested on COC Yes No*

Proper preservative indicated on COC/containers for analyses requested Yes No* N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times. Yes No*

* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date SL 8/11/15

Comments:

