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September 27, 2016

# RECEIVED

By Alameda County Environmental Health 1:29 pm, Sep 28, 2016

Mr. Mark Detterman Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

Dear Mr. Detterman:

Attached for your review is the *Off-Site Vapor Intrusion Assessment Report* for former Chevronbranded service station 90517, located at 3900 Piedmont Avenue, Oakland, California (Case #: RO0000138). This report was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you have any further questions, please do not hesitate to contact me or the Stantec project manager, Travis Flora, at (408) 827-3876, or <a href="mailto:travis.flora@stantec.com">travis.flora@stantec.com</a>.

Sincerely

Carryl MacLeod
Project Manager

# Off-Site Vapor Intrusion Assessment Report

Former Chevron-branded Service Station 90517 3900 Piedmont Avenue Oakland, California Case #: RO0000138



#### Prepared for:

Chevron Environmental Management Company 6001 Bollinger Canyon Road San Ramon, CA 94583

## Submitted by:

Stantec Consulting Services Inc. 15575 Los Gatos Blvd., Building C Los Gatos, CA 95032

3900 Piedmont Avenue, Oakland, CA September 27, 2016

## Sign-off Sheet

This document entitled Off-Site Vapor Intrusion Assessment Report was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Chevron Environmental Management Company (the "Client"). The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this

document.

Prepared by

(signature)

**Travis L. Flora**Senior Project Manager

Reviewed by \_\_\_\_\_\_(signature)

Patrick H. Vaughan, MS, CEM, Principal-National SME, Vapor Intrusion

**Dorota Runyan, P.E.** Senior Engineer





3900 Piedmont Avenue, Oakland, CA September 27, 2016

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## 1.0 Introduction

On behalf of Chevron Environmental Management Company (Chevron), Stantec Consulting Services Inc. (Stantec) is pleased to submit this Off-Site Vapor Intrusion Assessment Report for Chevron 90517 (Case #: RO0000138), which was located at 3900 Piedmont Avenue, Oakland, California (Site; shown on **Figure 1**).

This report describes the results of the off-Site crawl space and outdoor ambient air sampling conducted by Stantec on July 21, 2016, at 3891 Piedmont Avenue, Oakland, California. Stantec collected crawl space samples on May 16, 2016; however, those results are not detailed in this evaluation because although there were no detections of any constituents of concern in the May 16 crawl space sample, the laboratory reporting limits were greater than the respective environmental screening levels (ESLs), so they could not be used for evaluation.

Stantec was unable to execute the full scope of work on Site due to access issues, as described in detail in a letter from Chevron submitted to Alameda County Environmental Health (ACEH) on June 10, 2016 (Appendix A). The original scope of work was proposed in Stantec's Site Conceptual Model and Data Gap Work Plan, dated March 21, 2014; however, modifications were provided by ACEH in their letter dated May 6, 2014 (included in Appendix B). Additional modifications followed, including the addition of proposed soil borings down-gradient of the Site in Piedmont Avenue and changing the proposed off-Site vapor probe to a crawl space air sample because there was inadequate space to install a vapor probe at the intended location, and the City of Oakland would not allow installation of a vapor probe in the sidewalk. Multiple extensions for the report deliverable were approved by ACEH due to permitting and access issues. Related ACEH correspondence is included in Appendix B.

Soil borings B-7 and B-8 (shown on **Figure 2**) were attempted on February 1, 2016; however, soil samples could not be recovered from the fill material encountered at each location. Multiple attempts were made, including attempting a second B-7 location, approximately 5 feet northeast from the initial location. The fill material began to undercut the road, so work was stopped and the holes were backfilled and patched. No soil samples were collected from B-7 or B-8; therefore, no additional detail is provided in this report.

The following sections focus on the off-Site crawl space and outdoor ambient air sampling.



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# 2.0 Off-Site Vapor Intrusion Assessment

### 2.1 Health and Safety Plan

Stantec utilized a Site-specific health and safety plan (HASP) as required by the State of California General Industry Safety Order 5192 and Title 29 of the Code of Federal Regulations, Section 1910.120. The HASP outlines potential hazards Stantec personnel and subcontractors expect to be encountered during the field activities. Job safety analyses (JSAs) for tasks to be performed by Stantec personnel (e.g., driving, sample collection, etc.) were included. The HASP also included details regarding required personal protective equipment to be worn by all Stantec field personnel for each task. In addition, Stantec produced a Journey Management Plan (JMP) in an attempt to address potential motor vehicle incidents driving to and from the Site. A copy of Stantec's HASP and JMP were available on-Site during all field activities.

### 2.2 Crawl Space and Outdoor Ambient Air Sample Collection

An access agreement was established with the owner of the off-Site, down-gradient property located at 3891 Piedmont Avenue, Oakland, California prior to accessing the property. Notification was sent to the owner and tenant prior to sampling. Access was limited to the air sampling only from outside the building through a hatch. The tenant confirmed that there is no basement. The crawl space consists of an earthen floor with posts and beams supporting the first floor and approximately 3-foot high brick sidewalls.

Since access to the crawl space was limited, approximately 10 feet of Teflon® tubing was used to reach the approximate mid-point of the crawl space. The tubing was placed within a length of polyvinyl chloride (PVC) pipe to prevent curling or kinking of the tubing. The crawl space air was first sampled for analysis by United States Environmental Protection Agency (US EPA) Method TO-17 in laboratory-supplied, batch-certified sorbent tubes. Prior to sampling, 120 milliliters (mL) of the Teflon® tubing was purged using a syringe. After purging, the sorbent tube was connected to the Teflon® tubing, and approximately 3,360 mL of crawl space air was drawn through the sorbent tube using a gas-tight syringe. A secondary sorbent tube was then collected drawing approximately 1,260 mL of crawl space air. The purpose of collecting two different volumes was to help the laboratory lower the laboratory reporting limits (LRLs) below the respective Regional Water Quality Control Board – San Francisco Bay Region (RWQCB) commercial ESLs.

For analysis by US EPA Method TO-15, the crawl space air sample was collected in a laboratory-supplied individually-certified 6-Liter Summa canister. The canister was connected to a flow regulator calibrated to reduce air flow to approximately 11.5 milliliters per minute (mL/min) and a particulate filter. Prior to sampling, approximately 50 mL of the Teflon® tubing was purged using a syringe. After purging, the 6-Liter Summa canister with flow controller was connected to the Teflon® tubing, and the Summa canister valve was opened. Stantec ensured that residual vacuum was left in the canister at the cessation of sampling.



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One outdoor ambient air sample was collected at the same time as the crawl space air sample. For analysis by US EPA Method TO-17, a batch certified sorbent tube was used to draw approximately 3,360 mL of ambient air using a gas-tight syringe. A secondary sorbent tube sample was then collected drawing approximately 1,020 mL of ambient air. The purpose of collecting two different volumes was to help the laboratory lower the LRLs below the respective RWQCB commercial ESLs. For analysis by US EPA Method TO-15, the outdoor ambient air sample was collected in a 6-Liter individually-certified Summa canister. The canister was connected to a flow regulator calibrated to deliver a flow rate of approximately 11.5 ml/min and a particulate filter. The Summa canister was placed approximately 3 feet above grade at a location determined at the onset of sampling to be in an up-wind position relative to the building and protected from the elements.

The crawl space air sample was submitted to Eurofins Air Toxics to be analyzed for total petroleum hydrocarbons as diesel range organics (TPH-DRO) and naphthalene by US EPA Method TO-17; and for total petroleum hydrocarbons as gasoline range organics (TPH-GRO); benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds); and naphthalene by US EPA Method TO-15.

The ambient outdoor air sample was submitted to Eurofins Air Toxics to be analyzed for TPH-DRO and naphthalene by US EPA Method TO-17; and for TPH-GRO, BTEX compounds and naphthalene by US EPA Method TO-15.

### 2.3 Crawl Space and Outdoor Ambient Air Sample Results

The crawl space and ambient outdoor ambient air sample analytical results are summarized in **Table 1.** Certified laboratory analysis reports and chain-of-custody documentation are included in **Appendix C**. The US EPA assumes zero attenuation from the crawl space to indoor air, so the results are compared to RWQCB commercial ESLs for indoor air.

TPH-DRO and naphthalene analyzed by US EPA Method TO-17 and TPH-GRO analyzed by US EPA Method TO-15 were not detected above their respective LRLs in both the crawl space and the outdoor ambient air samples. The LRLs were below the respective RWQCB commercial ESLs for indoor air. The constituents of concern detected above their respective LRLs in the US EPA Method TO-15 analysis did not exceed their respective RWQCB ESLs. According to the Department of Toxic Substances Control's (DTSC) July 2015, Advisory – Active Soil Gas Investigations, US EPA Method TO-17 is the preferred analytical method to confirm naphthalene concentrations, so results from US EPA Method TO-17 are used for this evaluation. In general, compounds detected in the crawl space sample were somewhat higher than in the outdoor ambient air sample, which is likely the result of diminished air flow in the crawl space; although, crawl space vents are present, which allow fresh air to circulate beneath the building.



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### 3.0 Conclusions and Recommendations

As reported in Stantec's March 21, 2014, Site Conceptual Model and Data Gap Work Plan, the soil sample collected at 6 feet below ground surface (bgs) from borehole MW-4, which is closest to the off-site property, down-gradient of the Site, had no concentrations of TPH-GRO, BTEX compounds, or methyl tertiary-butyl ether above LRLs. Furthermore, as reported in Stantec's March 14, 2016, First Quarter 2016 Annual Groundwater Monitoring Report, the most recent depth-to-groundwater (DTW) at groundwater monitoring well MW-2 was 5.40 feet bgs, while DTW at monitoring well MW-4 was 9.30 feet bgs. With approximately 4 feet difference in groundwater elevation between wells MW-2 and MW-4, and assuming the groundwater elevation continues to drop down-gradient, the DTW at the off-site property is likely greater than 10 feet bgs, so there is a vertical separation of over 10 feet from groundwater off Site.

Results of the off-Site crawl space and outdoor ambient air sampling demonstrate that human health is protected. Off-Site conditions satisfy petroleum vapor intrusion to indoor air criteria b of the State Water Resources Control Board's Low-Threat Underground Storage Tank Case Closure Policy, effective August 17, 2012, under Resolution No. 2012-0016. Further evaluation of vapor intrusion off Site is not recommended.





#### Table 1

#### Off-Site Crawl Space and Outdoor Ambient Air Sample Analytical Results

3900 Piedmont Avenue Oakland, California

		US EPA Method TO-17			US EPA Method TO-15						
Sample ID	Date Collected	TPH-DRO (1L sample)	Naphthalene (1L sample)	TPH-DRO (3.3L sample)	Naphthalene (3.3L sample)	TPH-GRO	Benzene	Toluene	Ethylbenzene	Total Xylenes <sup>(1)</sup>	Naphthalene
		$(\mu g/m^3)$	(µg/m³)	$(\mu g/m^3)$	(µg/m³)	$(\mu g/m^3)$	$(\mu g/m^3)$	(μg/m³)	$(\mu g/m^3)$	$(\mu g/m^3)$	(µg/m³)
CS-1	7/21/2016	<1000	<1.0	<300	<0.30	<62	0.32	1.6	0.40	2.32	0.53
OA-1	7/21/2016	<1000	<1.0	<300	<0.30	<63	0.25	0.88	0.20	0.98	0.16 J
Indoor Air ESLs (2)		570	0.36	570	0.36	2,500	0.42	1,300	4.9	440	0.36

#### Notes:

(1) Total xylenes is the sum of ortho-, meta-, and para-xylenes.

(2) California Regional Water Quality Control Board, San Francisco Bay Region, "Update to Environmental Screening Levels." February 22, 2016. Commercial/Industrial Direct Exposure Human Health Risk Levels (Table IA-1).

J = estimated value

Bold font denotes a detected concentration. Bold/Blue denotes a concentration that exceeds its respective ESL.

#### Abbreviations:

ESLs = Environmental Screening Levels

L = liter

(µg/m3) = micrograms per cubic meter

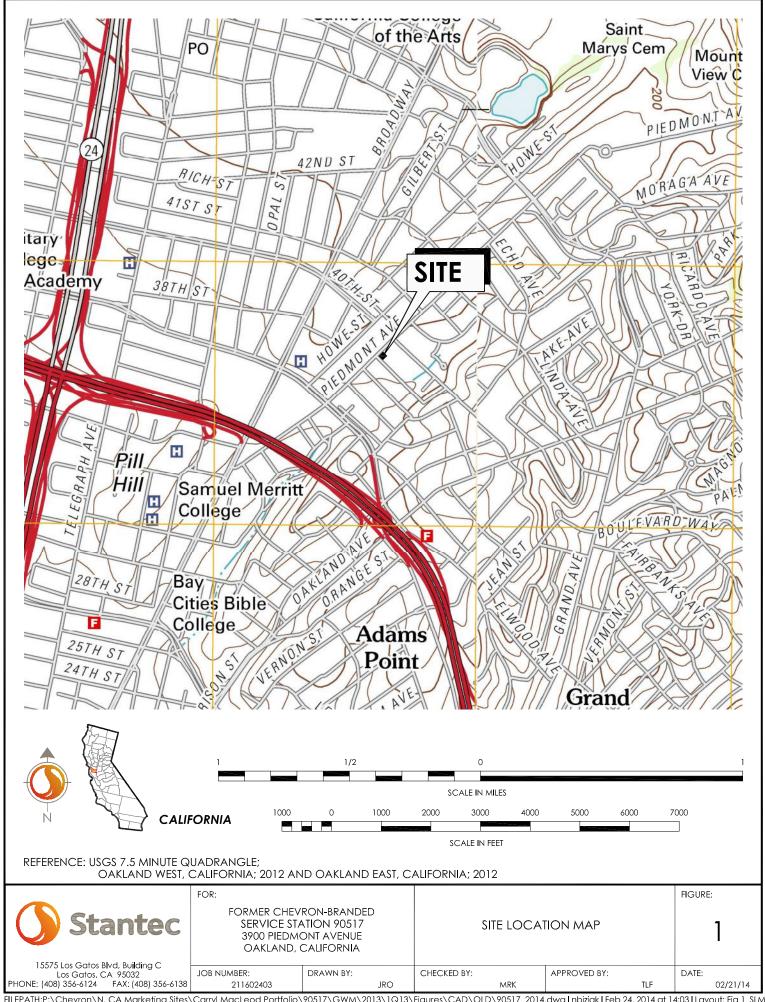
TPH-DRO = total petroleum hydrocarbons as diesel range organics ( $C_{10}$ - $C_{22}$  reported as total purgeable petroleum hydrocarbons)

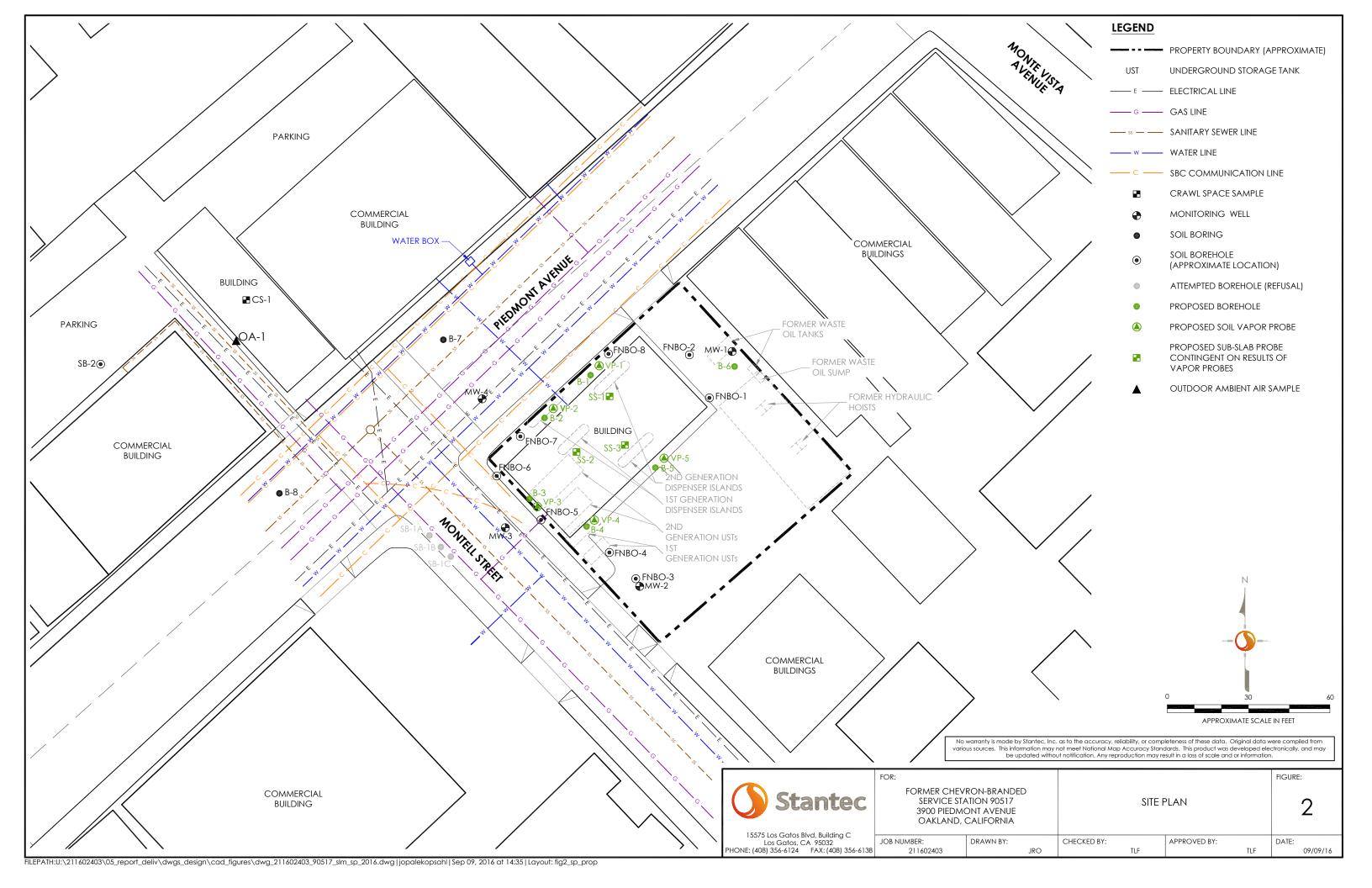
TPH-GRO = total petroleum hydrocarbons as gasoline range organics

US EPA = United States Environmental Protection Agency

< = compound was not detected at or above the detection limit shown.







# Appendix A

Chevron Letter Dated June 10, 2016



Carryl MacLeod Project Manager Marketing Business Unit Chevron Environmental Management Company 6101 Bollinger Canyon Road San Ramon, CA 94583 Tel (925) 790-6506 cmacleod@chevron.com

June 10, 2016

Mr. Mark Detterman Alameda Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: Fuel Leak Case No. RO0000138

Chevron 90517, 3900 Piedmont Ave, Oakland, CA (the "Property")

Dear Mr. Detterman:

This letter is intended to serve as a chronology of events of Chevron Environmental Management Company's ("CEMC") effort to access the Property to conduct environmental work directed by Alameda County Department of Environmental Health ("ACDEH"). As you know, CEMC entered into a Site Access Agreement ("Agreement") with the owners of the Property, Neil & Diane Goodhue Trs & E M Plant 3<sup>rd</sup> Tr, on December 11, 2006 which granted CEMC access to the Property to perform environmental assessment and monitoring activities.

On January 13, 2016, Stantec, on behalf of CEMC, sent a Notification of Proposed Field Work Activities of ACDEH-directed work to Owner (specifically, Neil and Diane Goodhue, as listed in the "Notices" section of the Agreement) and Owner's tenant, SOL Performance Training (owned by Tammara Moore) ("Tenant") (Attachment A). Both notifications were sent via overnight mail and delivered on January 14, 2016.

After the notifications were sent out and no objections were received from either the Owner or Tenant, Stantec conducted the utility locate activities at all locations on and offsite without incident on January 26, 2016. On February 1, 2016, Stantec began field activities on offsite locations on Piedmont Avenue in front of the Property. On February 2, 2016, Stantec accessed the Property to begin concrete coring at several locations at the back of the onsite building. During this process, Tenant (specifically, Ms. Moore) requested Stantec and its subcontractor to stop work immediately and remove all equipment and personnel from the Property, threatening to call authorities even after it was explained that CEMC had a valid access agreement with the Owner and had provided appropriate notifications to both Owner and Tenant weeks prior.

After being ordered by Ms. Moore to vacate the Property, Stantec and its subcontractor left quickly and notified CEMC. Due to the Ms. Moore's insistence that those performing the work on behalf of CEMC vacate the Property immediately, the subcontractor did not have time to appropriately drum the debris/soil from the concrete coring activities and subsequently left the debris in a bucket on site.

Per the Agreement, Alexis Coulter of CEMC notified Owner's attorney Eric Starr to inform him of the Tenant's refusal of access. Ms. Coulter explained to Mr. Starr that waste was left at the

Property and requested that he inform his client that Stantec needed to return to the Property to complete the agency-directed work and to properly contain the waste left on the Property. Mr. Starr advised Ms. Coulter to call the Owner directly and provided her with Ted Plant's contact information (Mr. Plant owns the Property along with the Goodhues). Ms. Coulter contacted Mr. Plant to inform him of the Tenant's actions and again requested access to return to the Property to complete the work. Mr. Plant directed Ms. Coulter to contact the Tenant directly, which she did. Ms. Coulter spoke with an employee of the Tenant's business who communicated CEMC's desire to return to the Property to properly store the waste to Ms. Moore. Ms. Moore then provided her consent (via her employee) for CEMC to return to the Property to properly store the waste.

The work was then rescheduled for February 22, 2016. On February 3, 2016, CEMC again provided notice of its intent to access the Property via email to Mr. Plant. Additional notification and work schedule was provided to Owner and Tenant on February 15, 2016. In this notification, CEMC also requested that Mr. Plant inform the Tenant of the rescheduled work and to provide confirmation to CEMC prior to February 17th from the Tenant of her acceptance of the new date of access (February 22nd). Beginning on February 3rd, CEMC worked with Mr. Plant and the Tenant to address their numerous concerns about the work, including potential noise, onsite parking, and timing of field activities.

On February 17, 2016, the Tenant identified storage of waste onsite as another concern that she requested be addressed prior to the commencement of any work on the Property. On February 19, 2016, CEMC canceled the February 22, 2016 scheduled work while determining available options to address the Tenant's concern regarding the storage of waste. CEMC notified ACDEH by phone that the work was canceled and that we were working to resolve the issues.

Due to the fact that we would likely generate waste that may potentially be hazardous, we therefore needed to abide by Title 22 California Code of Regulations Section 66262.11 and by Title 40 Code of Federal Regulations Section 262.11 in handling any waste that was generated. As we did not know whether the soil and/or water encountered during the proposed work would be hazardous until it is properly profiled, more time was needed to determine a safe and appropriate handling of the waste prior to being profiled and accepted at a waste disposal facility.

The work was then rescheduled for May 10, 2016. On April 13, 2016, CEMC again provided notice to Mr. Plant of its intended access and assured him that the accommodations requested by his Tenant regarding noise, onsite parking, and timing of the work were properly addressed by CEMC. CEMC again requested confirmation from Mr. Plant that the proposed schedule and accommodations were acceptable to both he and the Tenant.

After hearing nothing from Mr. Plant, CEMC followed up with him on April 22, 2016. Mr. Plant responded, telling CEMC that he gave notice to his Tenant of the proposed schedule but had not heard anything.

On April 22, 2016, Stantec submitted via Geotracker a Request for Extension of Subsurface Investigation Report which provided an update on the delay of completing the work, along with a brief statement that the Tenant had requested that the work conducted on February 2nd be discontinued. Stantec also provided notification to ACDEH of the rescheduled May 10, 2016 start date.

On April 25, 2016, CEMC requested written confirmation from Mr. Plant that the Tenant had accepted the new schedule and accommodations.

On April 28, 2016, due to a lack of response from Mr. Plant, CEMC canceled the work scheduled for May 10th and provided notification to ACDEH that the work was canceled as we did not receive confirmation from either Mr. Plant or the Tenant that the Tenant had agreed to CEMC's planned access to the Property to conduct the work.

On April 29, 2016, ACDEH submitted a Site Access Request to the Owner (Attachment B). ACDEH's letter stated "If you or your tenant continue to deny access or do not respond by the date specified below, then this Agency will hold you legally responsible for the investigation required by ACDEH. You will then be required to undertake the investigation at your own expense".

On May 2, 2016, CEMC received an email from Mr. Plant which included an email he received from the Tenant's employee, Kris Bailey, in which Ms. Bailey asks if CEMC had completed their work. CEMC then rescheduled the work yet again for May 10, 2016 and requested confirmation from Mr. Plant by end of the day that the Tenant understood the work had not occurred but would occur on May10th and that the Tenant would not deny CEMC access to the Property at that time.

On May 3, 2016, CEMC notified ACDEH that the work would need to be rescheduled yet again as no further communication or confirmation was received from either Mr. Plant or the Tenant.

On May 4, 2016, ACDEH regulator Mark Detterman inquired with Mr. Plant by email as to whether there was an update or if ACDEH could "authorize Chevron and their consultants to proceed". Mr. Plant responded, indicating that he, as landlord, had provided notice to the Tenant, but did not receive any authorization from the Tenant allowing the work to proceed.

On May 5, 2016, CEMC canceled the work scheduled for May 10th as no confirmation had been received by the end of May 4th from either the Tenant or Owner as was requested by CEMC. Soon after, CEMC was copied on an email dated May 5, 2016from ACDEH Program Manager Dilan Roe in which she proposed a meeting or conference call between all of the parties to discuss the project. At that time, CEMC noticed that within that email thread was an email from the Tenant's employee Ms. Bailey to Mr. Plant dated May 4, 2016 that confirmed the May 10 2016 work and schedule, along with several complaints from the Tenant to ACDEH about the scheduled work. Within hours of receiving this new information (the Tenant's confirmation that the work scheduled for May 10th could go forward), CEMC rescheduled the driller, field crew, permit inspector and waste hauler to begin the work on May 10th and notified Mr. Plant, the Tenant, and ACDEH by email that we were set to begin work on May 10th. Soon after, the Tenant responded by email stating that they now had patients scheduled during the time the work was scheduled to occur but that they were open to having a conference call between all of the parties. After receiving this information, I called ACDEH for assistance in proceeding with the work.

On May 6, 2016, I spoke with Mr. Detterman of ACDEH and informed him that the work would be done with hand augers to collect soil samples and install soil vapor probes. The only time the drill rig would be operating on the Property would be on Thursday, May 12, 2016 in the afternoon beginning at 4pm to conduct concrete coring as previously worked out with the Tenant due to their concerns.

On May 6, 2016, Mr. Detterman notified me that he had left a voice message for Tenant's representative, Ms. Bailey.

On May 9, 2016, Stantec picked up the street parking permit and posted No Parking signs along Piedmont Avenue and Montell Street in order to park all work vehicles off-site as requested by the Tenant. CEMC provided notification to Owner, Tenant and ACDEH of the planned work to begin the following morning, May 10th. I then received an update from Mr. Detterman that the Tenant would only permit the work to be performed on a Friday after 1pm. After hearing this news, CEMC notified all parties that the work was canceled and that the drums that were still on site would be removed on May 10th.

On May 10, 2016, Stantec coordinated the removal of the drums that were onsite.

It is CEMC's opinion that every effort was made to coordinate with both Owner and Tenant to conduct the agency-directed work at the Property in accordance with the Agreement. CEMC addressed every concern raised by the Tenant and spent significant time and effort to reschedule the work several times and had to do so with very little assistance from the Owner, despite the owner's obligation to communicate with the Tenant.

Per the ACDEH letter addressed to the Owner dated April 29, 2016, ACDEH stated "this Agency will hold you legally responsible for the investigation required by ACDEH. You will then be required to undertake the investigation at your own expense." Since CEMC was not able to conduct the work due to the Tenant's refusal to grant access (despite the fact that the Agreement between the CEMC and Owner is still in effect), CEMC requests that the property owners be required to complete the agency-directed work

If you have any further questions, please do not hesitate to contact me at (925) 842-3201, or cmacleod@chevron.com.

Sincerely,

Carryl MacLeod

Campl Macheod

**Project Manager** 

Attachments

CC

Geotracker
Neil and Diane Goodhue Trust
EM Plant 3<sup>rd</sup> Trust
Alexis Coulter, CEMC (via email)
Susan Snyder, CEMC (via email)

# **Attachment**



January 13, 2016

Attention: Neil and Diane Goodhue

300 Hillside Avenue

Piedmont, California 94611-4014

Manager of SOL Performance Training

3900 Piedmont Avenue Oakland, California 94611

Reference: Notification of Proposed Fieldwork Activities

3900 Piedmont Avenue, Oakland, California

Dear Mr. and Ms. Goodhue:

On behalf of Chevron Environmental Management Company (EMC), Stantec Consulting Services Inc. (Stantec) will be accessing your property located at the above-referenced address (the "Property") to perform Agency-directed environmental work. Environmental work will include the installation of soil vapor probes as well as the collection of soil and soil vapor samples.

Stantec and its subcontractors will be on the Property the following dates to complete this work: January 26, 2016 to perform utility locating activities, and February 1 - 5, 2016 to perform drilling and sampling activities. The scheduled fieldwork will occur during normal business hours. The equipment used for the work will include utility locating equipment, limited access drill rig, and support vehicles. Traffic control equipment will also be used to establish an exclusion zone to protect workers and the public while the activities are occurring on the Property. Waste generated during the site assessment activities will be stored on site pending pickup and disposal.

Please contact me if you have any questions about this work.

Regards,

Stantec Consulting Services Inc.

Belinda Espino **Project Scientist** 

408-827-3529

belinda.espino@stantec.com

Carryl MacLeod, EMC - Electronic Copy (<a href="mailto:cmacleod@chevron.com">cmacleod@chevron.com</a>) CC:

Eric Starr, Esq., 1 California Street, #300, San Francisco, California 94111

## Flora, Travis

From: trackingupdates@fedex.com
Sent: Thursday, January 14, 2016 10:58

**To:** Flora, Travis

**Subject:** FedEx Shipment 775412570848 Delivered

# Your package has been delivered

# Tracking # 775412570848

Ship date:

Belinda Espino

Wed, 1/13/2016

Stantec Consulting Services

Inc

Los Gatos, CA 95032

US



Delivery date:

Thu, 1/14/2016 10:54

am

Neil and Diane Goodhue

300 Hillside Ave

PIEDMONT, CA 94611

US

# **Shipment Facts**

Our records indicate that the following package has been delivered.

Tracking number:	775412570848
Status:	Delivered: 01/14/2016 10:54 AM Signed for By: Signature not required
Reference:	211602403.711.0201
Signed for by:	Signature not required
Delivery location:	PIEDMONT, CA
Delivered to:	Residence
Service type:	FedEx Standard Overnight
Packaging type:	FedEx Envelope
Number of pieces:	1
Weight:	0.50 lb.
Special handling/Services:	Deliver Weekday
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# Flora, Travis

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Sent: Thursday, January 14, 2016 11:19

**To:** Flora, Travis

**Subject:** FedEx Shipment 775412629876 Delivered

# Your package has been delivered

# Tracking # 775412629876

Ship date:

Wed, 1/13/2016

Belinda Espino
Stantec Consulting Services

Inc

Los Gatos, CA 95032

US



Delivery date:

Thu, 1/14/2016 11:14

am

Manager of SOL Performance

Training

SOL Performance Training 3900 Piedmont Ave OAKLAND, CA 94611

US

# **Shipment Facts**

Our records indicate that the following package has been delivered.

Tracking number:	775412629876				
Status:	Delivered: 01/14/2016 11:14 AM Signed for By: Signature not required				
Reference:	211602403.711.0201				
Signed for by:	Signature not required				
Delivery location:	OAKLAND, CA				
Delivered to:	Residence				
Service type:	FedEx Standard Overnight				
Packaging type:	FedEx Envelope				
Number of pieces:	1				
Weight:	0.50 lb.				
Special handling/Services:	Deliver Weekday				
	Residential Delivery				



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Thank you for your business.

# ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



REBECCA GEBHART, Acting Director

April 29, 2016

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Neil & Diane Goodhue 300 Hillside Avenue Piedmont, CA 94611

(Sent via electronic mail to: goodhueproperty@aol.com)

(Sent via electronic mail to: <a href="mailto:dcgoodhue@aol.com">dcgoodhue@aol.com</a>)

Neil & Diane Goodhue and Edward Plant 3<sup>rd</sup>, 300 Hillside Avenue Piedmont, CA 94611

Neil & Diane Goodhue and Edward Plant 3<sup>rd</sup>, Trust and Trustees 19 Mallorca Way San Francisco, CA 94123

(Sent via electronic mail to: tplant@edwardplantcompany.com)

Subject: Site Access Request; Fuel Leak Case No. RO0000138; Global ID # T0600102248;

Chevron #9-0517 / Homestead Federal Savings, 3900 Piedmont Avenue, Oakland CA

94610

Dear Mr. and Mrs. Goodhue, and Mr. Plant:

Alameda County Department of Environmental Health (ACDEH) understands that Ms. Carryl MacLeod of the Chevron Environmental Management Company, (CEMC; a Responsible Party for the subject fuel release case) and her consultant, Mr. Travis Flora with Stantec, have requested access to your property at 3900 Piedmont Avenue in Oakland to investigate the extent of residual contamination that has the potential to be of concern to site occupants. This work has been required by ACDEH. It is the understanding of ACDEH that an access agreement has been signed; however, Ms. MacLeod and Mr. Flora have informed ACDEH that the terms of access continue to be elusive. The purpose of this letter is to advise you in your decision to allow access.

In the past when your property was a gasoline service station, a petroleum hydrocarbon release occurred at the property and is known to have contaminated the soil, groundwater, and likely soil vapor beneath the site and vicinity. As a lead responsible party, CEMC is required to investigate the extent of the release(s) and to clean up the contamination to levels that are considered safe. For this reason ACDEH has required the CEMC and their consultant Stantec to investigate the presence of any residual contamination, and they have consequently requested access to undertake the investigation beneath your property.

ACDEH encourages you to work with Ms. MacLeod and Mr. Flora, and agree upon the terms necessary to allow them access to your property. If you or your tenant continue to deny access or do not respond by the date specified below, then this Agency will hold you legally responsible for the investigation required by ACDEH. You will then be required to undertake the investigation at your own expense. Since the costs for such investigations are often high, allowing access is clearly more reasonable.

Please also be aware that it appears our records have not been updated lately, and that the State of California considers all property owners who simply own a contaminated site to be Responsible Parties. Normally these changes are captured near the closure of a case, which this investigation is attempting to move the site towards. However to reflect changes in property ownership, and the apparent reluctance to allow access, ACDEH will shortly update our records and will be issuing you a *Notice of Responsibility* that notifies you of your responsibility to investigate and clean up your properly as a Responsible Party. The CEMC has provided the lead in this effort until now. Please understand that this is a standard procedure required of ACDEH by the state. It is also intended to clarify your legal responsibility.

Mr. & Mrs. Goodhue and Mr. Plant RO0000138 April 29, 2016, Page 2

Please reconsider the request for access and the terms of access to your property and respond to ACDEH within 10 working days from the date of this letter (**April 29**, **2016**) with your decision.

Please contact me with any questions you may have at (510) 567--6876 or send me an electronic mail message at <a href="mark.detterman@acgov.org">mark.detterman@acgov.org</a>.

Sincerely,

Digitally signed by Mark Detterman DN: cn=Mark Detterman, o=ACEH,

ou=ACEH

email=mark.detterman@acgov.org, c=US Date: 2016.04.29 12:11:03 -07'00'

Date: 2016.04.29 12:11:03 -

Mark E. Detterman, PG, CEG

Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations

Electronic Report Upload (ftp) Instructions

cc: Ms. Carryl MacLeod, Chevron Environmental Management Co., 6101 Bollinger Canyon Road, San Ramon, CA 94583, (Sent via electronic mail to <a href="mailto:CMacleod@chevron.com">CMacleod@chevron.com</a>)

Travis Flora, Stantec Consulting Services, Inc, 15575 Los Gatos Blvd, Bldg C, Los Gatos, CA 95032 (Sent via electronic mail to: <a href="mailto:Travis.Flora@Stantec.com">Travis.Flora@Stantec.com</a>)

Dilan Roe, ACDEH, (Sent via electronic mail to <a href="mailto:dilan.roe@acgov.org">dilan.roe@acgov.org</a>)

Mark Detterman, ACDEH, (Sent via electronic mail to <a href="mailto:mark.detterman@acgov.org">mark.detterman@acgov.org</a>)

Electronic File, GeoTracker

#### Attachment 1

#### Responsible Party(ies) Legal Requirements / Obligations

#### **REPORT REQUESTS**

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

#### **ELECTRONIC SUBMITTAL OF REPORTS**

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please **SWRCB** website information on these visit the for more requirements (http://www.waterboards.ca.gov/water\_issues/programs/ust/electronic\_submittal/).

#### **PERJURY STATEMENT**

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### <u>UNDERGROUND STORAGE TANK CLEANUP FUND</u>

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

# Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)

**REVISION DATE:** May 15, 2014

**ISSUE DATE:** July 5, 2005

PREVIOUS REVISIONS: October 31, 2005;

December 16, 2005; March 27, 2009; July 8, 2010,

July 25, 2010

**SECTION:** Miscellaneous Administrative Topics & Procedures

**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

#### **REQUIREMENTS**

- Please do not submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a single portable document format (PDF) with no password protection.
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- Do not password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO# Report Name Year-Month-Date (e.g., RO#5555 WorkPlan 2005-06-14)

#### Submission Instructions

- 1) Obtain User Name and Password
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to deh.loptoxic@acgov.org
  - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <a href="ftp://alcoftp1.acgov.org">ftp://alcoftp1.acgov.org</a>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

# **Appendix B**

Alameda County Department of Environmental Health Correspondence

## Flora, Travis

From: Detterman, Mark, Env. Health < Mark.Detterman@acgov.org>

Sent:Friday, May 09, 2014 9:45 AMTo:MacLeod, Carryl G; 'Fischer, Alexis N'Cc:Flora, Travis; Roe, Dilan, Env. Health

**Subject:** RO138; Chevron 9-0517 / Homestead Federal Savings; Meeting Followup and Report

**Submittal Extension** 

Follow Up Flag: Follow up Flag Status: Flagged

#### Carryl and Alexis,

Based on the discussions in the meeting held at ACEH on May 8, 2014, ACEH is in agreement that an extension of the submittal of the final report to September 5, 2014 is appropriate. This is expected to allow inclusion of indoor and outdoor air sampling, if required. Should indoor and outdoor air sampling be required, a work plan addendum to refine this scope of work, as discussed in the May 6, 2014 directive letter, would require an extension to August 1, 2014. These dates will be updated in Geotracker shortly.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Directs 510 567 6876

Direct: 510.567.6876 Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

# ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Agency Director

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

May 6, 2014

Ms. Carryl MacLeod Chevron Environmental Management Co. 6101 Bollinger Canyon Road San Ramon, CA 94583 Ms. Leslie Riasanovsky Unknown Address Neil & Diane Goodhue 300 Hillside Avenue Piedmont, CA 94611

(sent via electronic mail to <a href="mailto:CMacleod@chevron.com">CMacleod@chevron.com</a>)

Subject: Modified Work Plan Approval; Fuel Leak Case No. RO0000138; Global ID #

T0600102248; Chevron #9-0517 / Homestead Federal Savings, 3900 Piedmont Avenue,

Oakland CA 94610

Dear Mesdames MacLeod, Riasanovsky, and Mr. & Mrs. Goodhue:

Alameda County Environmental Health Department (ACEH) staff has reviewed the case file, including the *First Quarter 2014 Groundwater Monitoring Report*, and the *Site Conceptual Model and Data Gap Work Plan*, both dated March 21, 2014. The reports were prepared and submitted on your behalf by Stantec Consulting Services Inc. (Stantec). Thank you for submitting the documents.

ACEH has previously evaluated the data and recommendations in case files, and reviewed the site with respect to the State Water Resources Control Board's (SWRCBs) Low Threat Underground Storage Tank Case Closure Policy (LTCP). Based on ACEH staff review, we determined that the site fails to meet the LTCP General Criteria e (Site Conceptual Model), the Media-Specific Criteria for Groundwater, the Media-Specific Criteria for Vapor Intrusion to Indoor Air, and potentially the Direct Contact and Outdoor Air Exposure Criteria (see Geotracker for a copy of the LTCP checklist). ACEH's determination is based on insufficient data and analysis to support groundwater plume delineation coupled with a lack of knowledge of vicinity water supply well locations and potential other sensitive receptors, lack of understanding of the potential for vapor intrusion into existing onsite buildings, and the lack of sufficient shallow soil samples proximal to a number of the former UST-related structures. The referenced work plan was generated as a result of this LTCP review. For more details please see the directive letter dated December 18, 2013.

Based on ACEH staff review of the work plan addendum the proposed scope of work is conditionally approved for implementation provided that the technical comments below are incorporated during the proposed field investigation. Submittal of a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or technical comments below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: <a href="mark.detterman@acgov.org">mark.detterman@acgov.org</a>) prior to the start of field activities.

#### TECHNICAL COMMENTS

- Soil Vapor Data Collection Clarifications The referenced vapor work plan proposes a series of actions with which ACEH is in general agreement with; however, ACEH requests several modifications to the approach. Please submit a report by the date specified below.
  - **a.** Chevron Vapor Sampling Technical Protocols Because the Chevron Technical Protocols are proprietary and were not disclosed with the referenced work plan, ACEH requests that a copy be forwarded for review by the date identified below.

- b. Installation Depth of Soil Vapor Wells The work plan proposes to install the vapor wells to a depth of 5.5 feet below grade surface (bgs); however, the LTCP states that soil vapor is to be collected at existing buildings five feet below the depth of the foundation. Consequently, ACEH requests that the depth of the vapor wells be modified to ensure this detail is observed. Provided the depth of the foundations (onsite and offsite) can be documented which will justify the depth of well installation in the requested report, further communication of the well depth is not required.
- c. Use of Dry Bentonite in Vapor Wells ACEH requests the use of hydrated bentonite in vapor well construction procedures. Recent ACEH experience indicates that the sole use of dry bentonite, and subsequent (insufficient) in-place hydration, can significantly skew vapor data due to generator exhaust gases that can be in the vicinity. ACEH is not opposed to a thin layer of dry bentonite immediately above the well sand interval; however, seeks to clarify that hydrated bentonite above the dry bentonite is the preferred, and requested, well construction method.
- d. Naphthalene Analytical Testing Methods Vapor samples are proposed to be analyzed by TO-15 for naphthalene. Please note that Department of Toxic Substance Control (DTSC) documents recommend that TO-17 should be used to confirm TO-15 sampling results (Appendix E, Active Soil Gas Investigations Advisory, dated April 30, 2012). In part this appears to be related to lower naphthalene concentrations when Nylaflow tubing is used to sample soil vapor. Therefore ACEH requests that TO-17 be used to confirm naphthalene results by TO-15.
- e. Helium Tracer Shroud Concentrations A tracer gas is proposed to be used during vapor sampling, and while analysis for helium in the vapor sample is proposed, proposed analysis for shroud helium concentrations was not found. The referenced DTSC document recommends that shroud concentrations are to be determined in order to determine the magnitude of a leak into the vapor sample concentrations, if any. The document also provides an acceptable leak magnitude (Appendix C).
- Not Approved Contingency Indoor Air Sampling A contingency sampling plan for subslab, indoor and outdoor air was provided in the referenced work plan. While ACEH is in general agreement with the generalized plan, because indoor sampling locations and a copy of the indoor air pre-sampling survey were not provided, ACEH does not include approval of this scope of work with this letter.

The work plan proposed conducting a pre-sampling survey 24 hours prior to indoor air and under normal HVAC operations. Because of the potential for consumer products to complicate the interpretation of indoor air vapor samples, ACEH will request a longer advanced warning and interview period. DTSC also recommends (*Final Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air*, dated October 2011) that the sample duration for indoor air events should be a 24-hour period. In accordance with U.S. EPA Region 9 document (*EPA Region 9 Guidelines and Supplemental Information Needed for Vapor Intrusion Evaluations at the South Bay National Priorities List (NPL) Sites, December 3, 2013), because HVAC operations can significantly affect sample results, ACEH will request collection of the indoor air vapor samples under worst-case conditions, such as a non-operational HVAC system and with doors and windows closed. Additional 8-hour sampling events can be conducted at that time.* 

Should this contingency be required, please submit proposed indoor and outdoor air sampling locations, and a copy of the indoor air pre-sampling survey form to ACEH by the date identified below, as a work plan addendum.

- 2. Well Survey Principally to clarify, ACEH requests that the proposed well survey utilize both Department of Water Resources (DWR) and Alameda County Public Works Agency (ACPWA) well databases as they are sufficiently different to warrant review of both.
- 3. Sensitive Receptor Survey Principally to clarify, and because of the difficulty in defining the length of the groundwater plume downgradient of the site, ACEH has requested that a sensitive receptor

Mesdames MacLeod and Riasanovsky, and Mr. & Mrs. Goodhue RO0000138 May 6, 2014, Page 3

survey be conducted. ACEH requests that the technical justification papers of the LTCP be used to estimate the likely maximum length of the groundwater plume, and determine if sensitive receptors lie within that area. As previously requested this is to include basements or other underground structures and sensitive populations.

#### **TECHNICAL REPORT REQUEST**

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- June 6, 2014 Chevron Vapor Sampling Technical Protocols (via electronic mail)
- June 27, 2014 Work Plan Addendum (Indoor and Outdoor Sampling Locations and Indoor Air Pre-Sampling Survey Form, if required)

File to be named: RO138 WP ADEND R yyyy-mm-dd

July 25, 2014 – Subsurface Investigation File to be named: RO138 SWI R yyyy-mm-dd

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Online case files are available for review at the following website: <a href="http://www.acgov.org/aceh/index.htm">http://www.acgov.org/aceh/index.htm</a>. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Should you have any questions, please contact me at (510) 567--6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,

Digitally signed by Mark E. Detterman DN: cn=Mark E. Detterman, o, ou,

email, c=US

Date: 2014.05.06 15:19:13 -07'00'

Mark E. Detterman, PG, CEG

Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations

Electronic Report Upload (ftp) Instructions

Travis Flora, Stantec Consulting Services, Inc. 15575 Los Gatos Blvd, Bldg C, Los Gatos, CA CC: 95032 (sent via electronic mail to: Travis.Flora@Stantec.com)

Dilan Roe (sent via electronic mail to dilan.roe@acgov.org) Mark Detterman (sent via electronic mail to mark.detterman@acgov.org) Electronic File, GeoTracker

#### Attachment 1

#### Responsible Party(ies) Legal Requirements/Obligations

#### REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

#### **ELECTRONIC SUBMITTAL OF REPORTS**

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. Please **SWRCB** website information visit the for more these requirements: (http://www.waterboards.ca.gov/water issues/programs/ust/electronic submittal/).

#### PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

#### PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 7835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

#### UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, late reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

#### **AGENCY OVERSIGHT**

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

# Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)

REVISION DATE: July 25, 2012

**ISSUE DATE:** July 5, 2005

**PREVIOUS REVISIONS:** October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010

**SECTION:** Miscellaneous Administrative Topics & Procedures

SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (petroleum UST and SCP) require submission of all reports in electronic form to the county's FTP site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

#### **REQUIREMENTS**

- Please do not submit reports as attachments to electronic mail.
- Entire report including cover letter must be submitted to the ftp site as a single Portable Document Format (PDF) with no password protection.
- It is preferable that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements must be included and have either original or electronic signature.
- Do not password protect the document. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. Documents with password protection will not be accepted.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#\_Report Name\_Year-Month-Date (e.g., RO#5555\_WorkPlan\_2005-06-14)

#### **Submission Instructions**

- 1) Obtain User Name and Password
  - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
    - i) Send an e-mail to <a href="mailto:deh.loptoxic@acgov.org">deh.loptoxic@acgov.org</a>
  - b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
  - a) Using Internet Explorer (IE4+), go to <a href="ftp://alcoftp1.acgov.org">ftp://alcoftp1.acgov.org</a>
    - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
  - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
  - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
  - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
  - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
  - a) Send email to <a href="mailto:deh.loptoxic@acgov.org">deh.loptoxic@acgov.org</a> notify us that you have placed a report on our ftp site.
  - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
  - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
  - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

#### Espino, Belinda

**From:** Flora, Travis

Sent: Wednesday, August 27, 2014 9:21 AM

To: Espino, Belinda

Subject: FW: Chevron 90517, 3900 Piedmont Avenue, Oakland, CA (Case #: RO0000138)

FYI

**From:** Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]

**Sent:** Tuesday, August 26, 2014 16:51

**To:** Flora, Travis **Cc:** MacLeod, Carryl G

Subject: RE: Chevron 90517, 3900 Piedmont Avenue, Oakland, CA (Case #: RO0000138)

#### Travis,

The two proposed bore locations (B-7 and B-8) are not well located as replacements to VP-6, which was located downgradient (per the rose diagram) of well MW-4. The location of bore B-7 appears appropriate to characterize the downgradient of extent of groundwater from other onsite proposed bores should data generated by them be elevated; however, well MW-4 contains the highest known concentrations at the site. Is it not possible to place a bore outboard of VP-6 in the street by the manhole? If not, another suitable location for a replacement for VP-6 is necessary. Does the building have a crawl space?

Otherwise, ACEH is in agreement with the request for an extension to November 26<sup>th</sup> due to permitting factors at the city of Oakland. I've updated Geotracker with this revised date until we resolve this issue.

Mark Detterman

Senior Hazardous Materials Specialist, PG, CEG

Alameda County Environmental Health

1131 Harbor Bay Parkway Alameda, CA 94502

Direct: 510.567.6876 Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

**From:** Flora, Travis [mailto:Travis.Flora@stantec.com]

Sent: Thursday, August 21, 2014 3:22 PM

To: Detterman, Mark, Env. Health

Cc: MacLeod, Carryl G

Subject: Chevron 90517, 3900 Piedmont Avenue, Oakland, CA (Case #: RO0000138)

#### Hi Mark,

As requested, a copy of the extension request for RO0138 is attached. This extension request is due to the delays associated with Oakland encroachment permitting. We also discuss the proposed change in scope of work, adding two soil borings in the street in lieu of an off-site vapor probe, because the City will not allow work in the sidewalk.

#### Regards,

#### Travis L. Flora

Associate Project Manager Stantec

15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569

Phone: (408) 827-3876 Cell: (408) 458-6320 Travis.Flora@stantec.com



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From: Detterman, Mark, Env. Health < Mark.Detterman@acgov.org>

**Sent:** Tuesday, January 20, 2015 16:36

**To:** Flora, Travis

Cc: 'Coulter, Alexis N'; 'MacLeod, Carryl G'

**Subject:** RE: Extension Approval; Chevron 90517 (RO138)

Follow Up Flag: Follow up Flag Status: Flagged

Travis.

I've updated Geotracker with an April 3, 2015 submittal date.

Mark Detterman

Senior Hazardous Materials Specialist, PG, CEG

Alameda County Environmental Health

1131 Harbor Bay Parkway

Alameda, CA 94502 Direct: 510.567.6876 Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

**From:** Flora, Travis [mailto:Travis.Flora@stantec.com]

Sent: Thursday, January 15, 2015 2:28 PM

To: Detterman, Mark, Env. Health

Cc: 'Coulter, Alexis N'; 'MacLeod, Carryl G'; dehloptoxic, Env. Health

Subject: RE: Extension Approval; Chevron 90517 (RO138)

#### Hi Mark,

Due to continued Oakland permitting delays, I just submitted the attached extension request to GeoTracker and the ACEH FTP for site RO138.

#### Regards,

#### Travis L. Flora

Associate Project Manager

Stantec

15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569

Phone: (408) 827-3876 Cell: (408) 458-6320 Travis.Flora@stantec.com



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**From:** Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]

**Sent:** Friday, November 14, 2014 09:35

To: 'MacLeod, Carryl G'

Cc: Flora, Travis; 'Coulter, Alexis N'

**Subject:** Extension Approval; Chevron 90517 (RO138)

Please use this email as approval of the requested extension.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510 567 6876

Direct: 510.567.6876 Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Detterman, Mark, Env. Health < Mark.Detterman@acgov.org>

**Sent:** Tuesday, March 17, 2015 13:35

**To:** Flora, Travis **Cc:** MacLeod, Carryl G

Subject: RE: RO138 - Chevron 90517 Oakland - Request for Extension

#### Travis,

Hopefully we'll see some progress shortly! In the mean time, please use this email to document ACEH concurrence with the extension request.

Mark Detterman

Senior Hazardous Materials Specialist, PG, CEG Alameda County Environmental Health 1131 Harbor Bay Parkway

Alameda, CA 94502 Direct: 510.567.6876 Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

**From:** Flora, Travis [mailto:Travis.Flora@stantec.com]

**Sent:** Monday, March 16, 2015 9:20 AM

To: Detterman, Mark, Env. Health; dehloptoxic, Env. Health

Subject: RO138 - Chevron 90517 Oakland - Request for Extension

Hi Mark,

The attached extension request for RO138 was uploaded to GeoTracker.

Regards,

#### Travis L. Flora

Associate Project Manager Stantec

15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569

Phone: (408) 827-3876 Cell: (408) 458-6320 Travis.Flora@stantec.com



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From: Detterman, Mark, Env. Health < Mark. Detterman@acgov.org >

Sent: Monday, July 06, 2015 13:51 To: Flora, Travis; MacLeod, Carryl G

**Subject:** RE: Chevron 90517; RO138; Extension Request

**Follow Up Flag:** Follow up Flag Status: Flagged

#### Travis,

Please use this email to document ACEH agreement with an extension to October 31, 2015 due to the difficulty in obtaining offsite access prior to field work. Good luck,

#### Mark Detterman

Senior Hazardous Materials Specialist, PG, CEG Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502 Direct: 510.567.6876

Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

**From:** Flora, Travis [mailto:Travis.Flora@stantec.com]

**Sent:** Friday, June 26, 2015 1:31 PM To: Detterman, Mark, Env. Health Cc: dehloptoxic, Env. Health

Subject: RE: Chevron 90517; RO138; Extension Request

#### Hi Mark,

The attached extension request for Chevron 90517 – RO138 was uploaded to GeoTracker and the ACEH FTP site.

Thanks,

#### Travis L. Flora

Associate Project Manager Stantec

15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569

Phone: (408) 827-3876 Cell: (408) 458-6320 Travis.Flora@stantec.com













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From: Detterman, Mark, Env. Health < Mark. Detterman@acgov.org>

**Sent:** Monday, October 26, 2015 17:22 **To:** Flora, Travis; 'MacLeod, Carryl G'

**Subject:** FW: RO0000138 (Chevron 90517) Oakland, Extension Approval

**Attachments:** RO0000138\_CORRES\_2015-10-16.pdf

Follow Up Flag: Follow up Flag Status: Flagged

#### Carryl and Travis,

Please use this email to document ACEH acceptance of the requested extension for the subject site. Please be aware that you will encounter the city of Oakland holiday prohibition on public right of way encroachments between November 1 and January 2, 2016. Good luck with the permitting.

Mark Detterman

Senior Hazardous Materials Specialist, PG, CEG Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502

Direct: 510.567.6876 Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

**From:** Espino, Belinda [mailto:Belinda.Espino@stantec.com]

**Sent:** Friday, October 16, 2015 3:54 PM **To:** Detterman, Mark, Env. Health

Cc: Flora, Travis; MacLeod, Carryl G; dehloptoxic, Env. Health

Subject: RO0000138 (Chevron 90517) Oakland,

Hi Mr. Detterman,

The attached extension request for RO0000138 (Chevron 90517) Oakland, CA was uploaded to GeoTracker and the ACEH FTP site.

Thank you,

#### **Belinda Espino**

Project Scientist/Wildlife Biologist Stantec

15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569

Phone: (408) 827-3529 Cell: (408) 596-0640

belinda.espino@stantec.com





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Please consider the environment before printing this email.

From: Detterman, Mark, Env. Health < Mark.Detterman@acgov.org>

**Sent:** Monday, February 01, 2016 10:02

**To:** Flora, Travis **Cc:** 'MacLeod, Carryl G'

 Subject:
 RE: RO0000138\_CORRES\_2016-01-29

 Attachments:
 RO0000138\_CORRES\_2016-01-29.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Hi Travis, Carryl,

Per your request, ACEH has extended the due date until April 29<sup>th</sup>. It will be great to resolve these impediments and determine how the site should move forward. Regards,

Mark Detterman

Senior Hazardous Materials Specialist, PG, CEG Alameda County Environmental Health

1131 Harbor Bay Parkway

Alameda, CA 94502 Direct: 510.567.6876 Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

**From:** Flora, Travis [mailto:Travis.Flora@stantec.com]

**Sent:** Friday, January 29, 2016 5:42 PM **To:** Detterman, Mark, Env. Health **Cc:** dehloptoxic, Env. Health

Subject: RO0000138\_CORRES\_2016-01-29

Hi Mark,

Please see attached extension request that was uploaded to GeoTracker and the ACEH FTP site.

Regards,

#### Travis L. Flora

Associate Project Manager

Stantec

15575 Los Gatos Boulevard Building C Los Gatos CA 95032-2569

Phone: (408) 827-3876 Cell: (408) 458-6320 Travis.Flora@stantec.com





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# **Appendix C**

Certified Laboratory Analysis Reports and Chainof-Custody Documents



5/31/2016 Mr. Travis Flora Stantec Consulting Corporation 15575 Los Gatos Boulevard Building C Los Gatos CA 95032

Project Name: 90517 Project #: 211602403 Workorder #: 1605309

Dear Mr. Travis Flora

The following report includes the data for the above referenced project for sample(s) received on 5/17/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-17 VI are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

**Project Manager** 

Kya Vych



#### **WORK ORDER #:** 1605309

Work Order Summary

**CLIENT:** Mr. Travis Flora **BILL TO:** Accounts Payable

> Stantec Consulting Corporation Chevron U.S.A. Inc.

15575 Los Gatos Boulevard 6001 Bollinger Canyon Road

Building C L4310

San Ramon, CA 94583 Los Gatos, CA 95032

PHONE: 408-356-6124 **P.O.** # SO 0015188937

FAX: 408-356-6138 PROJECT # 211602403 90517

DATE RECEIVED: 05/17/2016 **CONTACT:** Kyle Vagadori

**DATE COMPLETED:** 05/31/2016

FRACTION #	NAME	<b>TEST</b>
01A	CS-1	Modified TO-17 VI
02A	Lab Blank	Modified TO-17 VI
03A	CCV	Modified TO-17 VI
04A	LCS	Modified TO-17 VI
04AA	LCSD	Modified TO-17 VI

	The	ude Tlayer		
CERTIFIED BY:		00	DATE: 05/31/16	

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016. Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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#### LABORATORY NARRATIVE Modified EPA Method TO-17 (VI Tubes) Stantec Consulting Corporation Workorder# 1605309

One TO-17 VI Tube sample was received on May 17, 2016. The laboratory performed the analysis via modified EPA Method TO-17 using GC/MS in the full scan mode. TO-17 'VI' sorbent tubes are thermally desorbed onto a secondary trap. The trap is thermally desorbed to elute the components into the GC/MS system for compound separation and detection.

A modification that may be applied to EPA Method TO-17 at the client's discretion is the requirement to transport sorbent tubes at 4 deg C. Laboratory studies demonstrate a high level of stability for VOCs on the TO-17 'VI' tube at room temperature for periods of up to 14 days. Tubes can be shipped to and from the field site at ambient conditions as long as the 14-day sample hold time is upheld. Trip blanks and field surrogate spikes are used as additional control measures to monitor recovery and background contribution during tube transport.

Since the TO-17 VI application significantly extends the scope of target compounds addressed in EPA Method TO-15 and TO-17, the laboratory has implemented several method modifications outlined in the table below. Specific project requirements may over-ride the laboratory modifications.

Requirement	TO-17	ATL Modifications
Initial Calibration	%RSD =30% with 2<br allowed out up to 40%	VOC list: %RSD =30% with 2 allowed out up to 40% SVOC list: %RSD</=30% with 2 allowed out up to 40%</td
Daily Calibration	%D for each target compound within +/-30%.	Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene within +/-40%D
Audit Accuracy	70-130%	Second source recovery limits for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene = 60-140%.
Distributed Volume Pairs	Collection of distributed volume pairs required for monitoring ambient air to insure high quality.	If site is well-characterized or performance previously verified, single tube sampling may be appropriate.  Distributed pairs may be impractical for soil gas collection due to configuration and volume constraints.
Analytical Precision	=20% RPD</td <td>&lt;30% RPD for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene.</td>	<30% RPD for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene.

### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

The reported CCV and LCS for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Sampling volume was supplied by the client. A sampling volume of 0.060 L was used to convert ng to ug/m3 for the associated Lab Blank.



#### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in blank (subtraction not performed).
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
  - UJ- Non-detected compound associated with low bias in the CCV
  - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



# **Summary of Detected Compounds EPA METHOD TO-17**

Client Sample ID: CS-1

Lab ID#: 1605309-01A

No Detections Were Found.



Client Sample ID: CS-1 Lab ID#: 1605309-01A EPA METHOD TO-17

File Name:	6051814 Da	ate of Extraction: NADate of Collection: 5/16/16 11:11:00 AM	
Dil. Factor:	1.00	Date of Analysis: 5/18/16 06:52 PM	

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ng)	(ug/m3)	(ng)	(ug/m3)
Naphthalene	1.0	17	Not Detected	Not Detected
TPH (Diesel Range C10-C22)	1000	17000	Not Detected	Not Detected

Air Sample Volume(L): 0.0600 Container Type: TO-17 VI Tube

		Method
Surrogates	%Recovery	Limits
Naphthalene-d8	85	50-150



Client Sample ID: Lab Blank Lab ID#: 1605309-02A EPA METHOD TO-17

File Name:	6051806	Date of Extraction: NADate of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/18/16 12:50 PM

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ng)	(ug/m3)	(ng)	(ug/m3)
Naphthalene	1.0	17	Not Detected	Not Detected
TPH (Diesel Range C10-C22)	1000	17000	Not Detected	Not Detected

Air Sample Volume(L): 0.0600 Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Naphthalene-d8	84	50-150



Client Sample ID: CCV Lab ID#: 1605309-03A EPA METHOD TO-17

File Name: 6051803 Date of Extraction: NADate of Collection: NA

Dil. Factor: 1.00 Date of Analysis: 5/18/16 10:50 AM

Compound%RecoveryNaphthalene84TPH (Diesel Range C10-C22)112

Air Sample Volume(L): 1.00

		Method
Surrogates	%Recovery	Limits
Naphthalene-d8	78	50-150



Naphthalene-d8

Client Sample ID: LCS Lab ID#: 1605309-04A EPA METHOD TO-17

File Name:	6051804	Date of Extraction: NADate of Collection: NA
	0001004	Date of Extraction: 10 Date of Concention: 101

Dil. Factor: 1.00 Date of Analysis: 5/18/16 11:30 AM

Compound	%Recovery	Method Limits
Naphthalene	90	70-130
TPH (Diesel Range C10-C22)	Not Spiked	60-140
Air Sample Volume(L): 1.00		
Container Type: NA - Not Applicable		
		Method
Surrogates	%Recovery	Limits

83

50-150



**Client Sample ID: LCSD** Lab ID#: 1605309-04AA **EPA METHOD TO-17** 

File Name:	6051805	Date of Extraction: NADate of Collection: NA
Dil Factor:	1 00	Date of Analysis: 5/18/16 12:10 PM

Compound	%Recovery	Method Limits
<u> </u>	· · · · · · · · · · · · · · · · · · ·	
Naphthalene	90	70-130
TPH (Diesel Range C10-C22)	Not Spiked	60-140
Air Sample Volume(L): 1.00		
Container Type: NA - Not Applicable		
		Method
Surrogates	%Recovery	Limits
Naphthalene-d8	84	50-150

# **TO-17 SAMPLE COLLECTION**



Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold handling or shipping of these samples. Relinquishing signature also indicates agreement to hold be a signature of the samples of the sampl

CHAIN-	OF-CUSTODY RECOR	harmless, def kind, related t	end, and indemnit o the collection, h	fy Air Toxics andling, or sl	Limited hipping	against any clai of samples. D.O	im, demand .T. Hotline (8	, or action, of an 300) 467-4922.	y (916) 98	5-1000	Page	-	of	1020
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Use	Fed Ex		1 2	5,4°C	C	200x		Yes No	None	1	6053	n a	00000000000000000000000000000000000000	3/60/25505



6/1/2016

Mr. Travis Flora Stantec Consulting Corporation 15575 Los Gatos Boulevard Building C Los Gatos CA 95032

Project Name: 90517 Project #: 211602403 Workorder #: 1605329A

Dear Mr. Travis Flora

The following report includes the data for the above referenced project for sample(s) received on 5/17/2016 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

**Project Manager** 

Kya Vych



#### WORK ORDER #: 1605329A

Work Order Summary

CLIENT: Mr. Travis Flora BILL TO: Accounts Payable

Stantec Consulting Corporation Chevron U.S.A. Inc.

15575 Los Gatos Boulevard 6001 Bollinger Canyon Road

Building C L4310

Los Gatos, CA 95032 San Ramon, CA 94583

**PHONE:** 408-356-6124 **P.O.** # SO 0015188937

FAX: 408-356-6138 PROJECT # 211602403 90517

**DATE RECEIVED:** 05/17/2016 **CONTACT:** Kyle Vagadori **DATE COMPLETED:** 06/01/2016

RECEIPT FINAL

FRACTION #	<u>NAME</u>	<u>TEST</u>	VAC./PRES.	<u>PRESSURE</u>
01A	CS-1	TO-15	4.9 "Hg	14.9 psi
02A	Lab Blank	TO-15	NA	NA
03A	CCV	TO-15	NA	NA
04A	LCS	TO-15	NA	NA
04AA	LCSD	TO-15	NA	NA

	Meide Mayor	
CERTIFIED BY:	0 00	DATE: 06/01/16

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.



# EPA Method TO-15 Stantec Consulting Corporation Workorder# 1605329A

One 1 Liter Summa Canister sample was received on May 17, 2016. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

#### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
  - J Estimated value.
  - E Exceeds instrument calibration range.
  - S Saturated peak.
  - Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
  - UJ- Non-detected compound associated with low bias in the CCV
  - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



# Summary of Detected Compounds EPA METHOD TO-15 GC/MS FULL SCAN

Client Sample ID: CS-1
Lab ID#: 1605329A-01A
No Detections Were Found.



# Client Sample ID: CS-1 Lab ID#: 1605329A-01A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a052120	Date of Collection: 5/16/16 11:24:00 AM
Dil. Factor:	2.41	Date of Analysis: 5/21/16 10:28 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1.2	Not Detected	3.8	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Methyl tert-butyl ether	1.2	Not Detected	4.3	Not Detected
Naphthalene	2.4	Not Detected	13	Not Detected
TPH ref. to Gasoline (MW=100)	120	Not Detected	490	Not Detected

#### **Container Type: 1 Liter Summa Canister**

••		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	97	70-130



# Client Sample ID: Lab Blank Lab ID#: 1605329A-02A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: Dil. Factor:	a052107 1.00		of Collection: NA of Analysis: 5/21	/16 10:28 AM
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.50	Not Detected	1.6	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Methyl tert-butyl ether	0.50	Not Detected	1.8	Not Detected
Naphthalene	1.0	Not Detected	5.2	Not Detected
TPH ref. to Gasoline (MW=100)	50	Not Detected	200	Not Detected
Container Type: NA - Not Applical	ole			
				Method
Surrogates		%Recovery		Limits
1,2-Dichloroethane-d4		98	_	70-130
Toluene-d8		102		70-130
4-Bromofluorobenzene		98		70-130



# Client Sample ID: CCV Lab ID#: 1605329A-03A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name: a052105 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 5/21/16 09:11 AM

Compound	%Recovery	
Benzene	120	
Ethyl Benzene	116	
Toluene	114	
m,p-Xylene	118	
o-Xylene	118	
Methyl tert-butyl ether	122	
Naphthalene	96	
TPH ref. to Gasoline (MW=100)	100	

Container Type: 1170 Het Applicable		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	99	70-130



# Client Sample ID: LCS Lab ID#: 1605329A-04A

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a052103	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/21/16 08:15 AM

Compound	%Recovery	Method Limits
Benzene	115	70-130
Ethyl Benzene	114	70-130
Toluene	111	70-130
m,p-Xylene	116	70-130
o-Xylene	117	70-130
Methyl tert-butyl ether	117	70-130
Naphthalene	87	60-140
TPH ref. to Gasoline (MW=100)	Not Spiked	

Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	96	70-130		
Toluene-d8	101	70-130		
4-Bromofluorobenzene	97	70-130		



# Client Sample ID: LCSD Lab ID#: 1605329A-04AA

#### EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	a052104	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 5/21/16 08:41 AM

Compound	%Recovery	Method Limits		
Benzene	114	70-130		
Ethyl Benzene	114	70-130		
Toluene	109	70-130		
m,p-Xylene	115	70-130		
o-Xylene	116	70-130		
Methyl tert-butyl ether	115	70-130		
Naphthalene	94	60-140		
TPH ref. to Gasoline (MW=100)	Not Spiked			

Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	97	70-130		
Toluene-d8	101	70-130		
4-Bromofluorobenzene	97	70-130		



Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of FOLSOM, CA 95630-4719 any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the

(916) 985-1000 FAX (916) 985-1020

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8/5/2016

Mr. Devon Owens Stantec Consulting Corporation 15575 Los Gatos Boulevard Building C Los Gatos CA 95032

Project Name: Chevron 90517

Project #: 211602403 Workorder #: 1607380

Dear Mr. Devon Owens

The following report includes the data for the above referenced project for sample(s) received on 7/23/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-17 VI are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

**Project Manager** 

Kya Vych



#### WORK ORDER #: 1607380

Work Order Summary

CLIENT: Mr. Devon Owens BILL TO: Accounts Payable

Stantec Consulting Corporation Chevron U.S.A. Inc.
15575 Los Gatos Boulevard 6001 Bollinger Canyon Road

Building C L4310

Los Gatos, CA 95032 San Ramon, CA 94583

**PHONE:** 408-356-6124 **P.O.** # NWENV009051700801

FAX: 408-356-6138 PROJECT # 211602403 Chevron 90517

DATE RECEIVED: 07/23/2016

DATE COMPLETED: 08/05/2016

CONTACT: Kyle Vagadori

FRACTION #	<u>NAME</u>	<u>TEST</u>
01A	CS-1 (3.3L)	Modified TO-17 VI
02A	CS-1 (1L)	Modified TO-17 VI
03A	OA-1 (3.3L)	Modified TO-17 VI
04A	OA-1 (1L)	Modified TO-17 VI
05A	Lab Blank	Modified TO-17 VI
06A	CCV	Modified TO-17 VI
07A	LCS	Modified TO-17 VI
07AA	LCSD	Modified TO-17 VI

	Heide Tlayer	
CERTIFIED BY:	0 00	DATE: $\frac{08/05/16}{}$

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.



#### LABORATORY NARRATIVE Modified EPA Method TO-17 (VI Tubes) Stantec Consulting Corporation Workorder# 1607380

Four TO-17 VI Tube samples were received on July 23, 2016. The laboratory performed the analysis via modified EPA Method TO-17 using GC/MS in the full scan mode. TO-17 'VI' sorbent tubes are thermally desorbed onto a secondary trap. The trap is thermally desorbed to elute the components into the GC/MS system for compound separation and detection.

A modification that may be applied to EPA Method TO-17 at the client's discretion is the requirement to transport sorbent tubes at 4 deg C. Laboratory studies demonstrate a high level of stability for VOCs on the TO-17 'VI' tube at room temperature for periods of up to 14 days. Tubes can be shipped to and from the field site at ambient conditions as long as the 14-day sample hold time is upheld. Trip blanks and field surrogate spikes are used as additional control measures to monitor recovery and background contribution during tube transport.

Since the TO-17 VI application significantly extends the scope of target compounds addressed in EPA Method TO-15 and TO-17, the laboratory has implemented several method modifications outlined in the table below. Specific project requirements may over-ride the laboratory modifications.

Requirement	TO-17	ATL Modifications
Initial Calibration	%RSD =30% with 2<br allowed out up to 40%	VOC list: %RSD =30% with 2 allowed out up to 40% SVOC list: %RSD</=30% with 2 allowed out up to 40%</td
Daily Calibration	%D for each target compound within +/-30%.	Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene within +/-40%D
Audit Accuracy	70-130%	Second source recovery limits for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene = 60-140%.
Distributed Volume Pairs	Collection of distributed volume pairs required for monitoring ambient air to insure high quality.	If site is well-characterized or performance previously verified, single tube sampling may be appropriate.  Distributed pairs may be impractical for soil gas collection due to configuration and volume constraints.
Analytical Precision	=20% RPD</td <td>&lt;30% RPD for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene.</td>	<30% RPD for Fluorene, Phenanthrene, Anthracene, Fluoranthene, and Pyrene.

#### **Receiving Notes**

A Temperature Blank was included with the shipment. Temperature was measured and was not within 4±2 °C. Coolant in the form of blue ice was present. Analysis proceeded.

#### **Analytical Notes**

Sampling volume was supplied by the client. A sampling volume of 3.30 L was used to convert ng to ug/m3 for the associated Lab Blank.

The reported CCV and LCS for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.



#### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in blank (subtraction not performed).
- J Estimated value.
- E Exceeds instrument calibration range.
- S Saturated peak.
- Q Exceeds quality control limits.
- U Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.
  - UJ- Non-detected compound associated with low bias in the CCV
  - N The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

- a-File was requantified
- b-File was quantified by a second column and detector
- r1-File was requantified for the purpose of reissue



# **Summary of Detected Compounds EPA METHOD TO-17**

Client Sample ID: CS-1 (3.3L)

Lab ID#: 1607380-01A
No Detections Were Found.

Client Sample ID: CS-1 (1L)

Lab ID#: 1607380-02A
No Detections Were Found.

Client Sample ID: OA-1 (3.3L)

Lab ID#: 1607380-03A
No Detections Were Found.

Client Sample ID: OA-1 (1L)

Lab ID#: 1607380-04A
No Detections Were Found.



Naphthalene-d8

# Client Sample ID: CS-1 (3.3L) Lab ID#: 1607380-01A

# **EPA METHOD TO-17**

Dil. Factor:	1.00 Date of Analysis: 8/1/16		6 08:18 PM	
Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	0.30	Not Detected	Not Detected
TPH (Diesel Range C10-C22)	1000	300	Not Detected	Not Detected
Air Sample Volume(L): 3.30				
Container Type: TO-17 VI Tube				
				Method
Surrogates		%Recovery		Limits

119

50-150



Client Sample ID: CS-1 (1L) Lab ID#: 1607380-02A EPA METHOD TO-17

File Name: Dil. Factor:	6080113 Date o 1.00		te of Collection: 7/2 te of Analysis: 8/1/1	
Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	1.0	Not Detected	Not Detected

1000

Not Detected

Not Detected

1000

Air Sample Volume(L): 1.00 Container Type: TO-17 VI Tube

TPH (Diesel Range C10-C22)

Surrogates	%Recovery	Method Limits
Naphthalene-d8	120	50-150



Naphthalene-d8

# Client Sample ID: OA-1 (3.3L) Lab ID#: 1607380-03A

#### **EPA METHOD TO-17**

Dil. Factor:	1.00 Date		e of Analysis: 8/1/16 08:58 PM	
Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	0.30	Not Detected	Not Detected
TPH (Diesel Range C10-C22)	1000	300	Not Detected	Not Detected
Air Sample Volume(L): 3.30				
Container Type: TO-17 VI Tube				
				Method
Surrogates		%Recovery		Limits

82

50-150



Naphthalene-d8

# Client Sample ID: OA-1 (1L) Lab ID#: 1607380-04A

EPA ME	ETHOD TO-17

Dil. Factor:	6080114 Date of Extraction: NADate of Collection: 7/21/16 1.00 Date of Analysis: 8/1/16 07			
Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Naphthalene	1.0	1.0	Not Detected	Not Detected
TPH (Diesel Range C10-C22)	1000	1000	Not Detected	Not Detected
Air Sample Volume(L): 1.00 Container Type: TO-17 VI Tube				
7.				Method
Surrogates		%Recovery		Limits

119

50-150



Client Sample ID: Lab Blank Lab ID#: 1607380-05A EPA METHOD TO-17

File Name:	6080107	Date of Extraction: NADate of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/16 01:50 PM

	Rpt. Limit	Rpt. Limit	Amount	Amount
Compound	(ng)	(ug/m3)	(ng)	(ug/m3)
Naphthalene	1.0	0.30	Not Detected	Not Detected
TPH (Diesel Range C10-C22)	1000	300	Not Detected	Not Detected

Air Sample Volume(L): 3.30

Surrogates	%Recovery	Method Limits
Naphthalene-d8	123	50-150



Client Sample ID: CCV Lab ID#: 1607380-06A EPA METHOD TO-17

File Name: 6080103 Date of Extraction: NADate of Collection: NA

Dil. Factor: 1.00 Date of Analysis: 8/1/16 10:32 AM

Compound%RecoveryNaphthalene102TPH (Diesel Range C10-C22)118

Air Sample Volume(L): 1.00

		Method	
Surrogates	%Recovery	Limits	
Naphthalene-d8	127	50-150	



Naphthalene-d8

Client Sample ID: LCS Lab ID#: 1607380-07A EPA METHOD TO-17

File Name:	6080104	Date of Extraction: NADate of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/16 11:51 AM

Compound	%Recovery	Method Limits
Naphthalene	107	70-130
TPH (Diesel Range C10-C22)	Not Spiked	60-140
Air Sample Volume(L): 1.00		
Container Type: NA - Not Applicable		
		Method
Surrogates	%Recovery	Limits

127

50-150



Naphthalene-d8

Client Sample ID: LCSD Lab ID#: 1607380-07AA EPA METHOD TO-17

File Name:	6080105	Date of Extraction: NADate of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 8/1/16 12:31 PM

		Method
Compound	%Recovery	Limits
Naphthalene	110	70-130
TPH (Diesel Range C10-C22)	Not Spiked	60-140
Air Sample Volume(L): 1.00		
Container Type: NA - Not Applicable		
		Method
Surrogates	%Recovery	Limits

129

50-150



8/5/2016

Mr. Devon Owens Stantec Consulting Corporation 15575 Los Gatos Boulevard Building C Los Gatos CA 95032

Project Name: Chevron 90517

Project #: 211602403 Workorder #: 1607434

Dear Mr. Devon Owens

The following report includes the data for the above referenced project for sample(s) received on 7/23/2016 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

**Project Manager** 

Kya Vych



#### **WORK ORDER #: 1607434**

#### Work Order Summary

CLIENT: Mr. Devon Owens BILL TO: Accounts Payable

Stantec Consulting Corporation Chevron U.S.A. Inc.

15575 Los Gatos Boulevard 6001 Bollinger Canyon Road

Building C L4310

Los Gatos, CA 95032 San Ramon, CA 94583

**PHONE:** 408-356-6124 **P.O.** # NWENV009051700801

FAX: 408-356-6138 PROJECT # 211602403 Chevron 90517

DATE RECEIVED: 07/23/2016

DATE COMPLETED: 08/05/2016

CONTACT: Kyle Vagadori

			RECEIPT	FINAL
FRACTION #	NAME	<u>TEST</u>	VAC./PRES.	<b>PRESSURE</b>
01A	CS-1	Modified TO-15	3.9 "Hg	4.9 psi
01B	CS-1	Modified TO-15	3.9 "Hg	4.9 psi
02A	OA-1	Modified TO-15	4.3 "Hg	4.8 psi
02B	OA-1	Modified TO-15	4.3 "Hg	4.8 psi
03A	Lab Blank	Modified TO-15	NA	NA
03B	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
04B	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA
05B	LCS	Modified TO-15	NA	NA
05BB	LCSD	Modified TO-15	NA	NA

DATE 08/05/16	
CERTIFIED BY: DATE: 06/03/10	

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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#### LABORATORY NARRATIVE Modified TO-15 Full Scan/SIM Stantec Consulting Corporation Workorder# 1607434

Two 6 Liter Summa Canister (SIM Certified) samples were received on July 23, 2016. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the EATL modifications.

Requirement	TO-15	ATL Modifications
ICAL %RSD acceptance criteria	=30% RSD with 2<br compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD  For SIM: Project specific; default criteria is =30% RSD with 10% of compounds allowed out to < 40% RSD</td
Daily Calibration	+- 30% Difference	For Full Scan: = 30% Difference with four allowed out up to </=40%.; flag and narrate outliers  For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers</td
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

#### **Receiving Notes**

There were no receiving discrepancies.

#### **Analytical Notes**

As per project specific client request the laboratory has reported estimated values for Naphthalene and Benzene that are below the Reporting Limit but greater than the Method Detection Limit. Results are reported as qualified with high probability for false positive.



A single point calibration for TPH referenced to Gasoline was performed for each daily analytical batch. Recovery is reported as 100% in the associated results for each CCV.

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

#### **Definition of Data Qualifying Flags**

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

- B Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
  - J Estimated value.
  - E Exceeds instrument calibration range.
  - S Saturated peak.
  - Q Exceeds quality control limits.
  - U Compound analyzed for but not detected above the reporting limit.
  - UJ- Non-detected compound associated with low bias in the CCV
  - N The identification is based on presumptive evidence.
  - CN See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue



# Summary of Detected Compounds MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: CS-1

Lab ID#: 1607434-01A

No Detections Were Found.

Client Sample ID: CS-1 Lab ID#: 1607434-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.076	0.10	0.24	0.32
Toluene	0.031	0.44	0.12	1.6
Ethyl Benzene	0.031	0.092	0.13	0.40
m,p-Xylene	0.061	0.46	0.26	2.0
o-Xylene	0.031	0.075	0.13	0.32
Naphthalene	0.076	0.10	0.40	0.53

Client Sample ID: OA-1
Lab ID#: 1607434-02A
No Detections Were Found.

Client Sample ID: OA-1 Lab ID#: 1607434-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
Benzene	0.078	0.078	0.25	0.25	_
Toluene	0.031	0.23	0.12	0.88	
Ethyl Benzene	0.031	0.045	0.13	0.20	
m,p-Xylene	0.062	0.17	0.27	0.74	
o-Xylene	0.031	0.054	0.13	0.24	
Naphthalene	0.078	0.030 J	0.41	0.16 J	



# Client Sample ID: CS-1 Lab ID#: 1607434-01A

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
TPH ref. to Gasoline (MW=100)	15	Not Detected	62	Not Detected

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	90	70-130



# Client Sample ID: CS-1 Lab ID#: 1607434-01B

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v072719sim	Date of Collection: 7/21/16 3:30:00 PM
Dil. Factor:	1.53	Date of Analysis: 7/27/16 09:02 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	0.076	0.10	0.24	0.32
Toluene	0.031	0.44	0.12	1.6
Ethyl Benzene	0.031	0.092	0.13	0.40
m,p-Xylene	0.061	0.46	0.26	2.0
o-Xylene	0.031	0.075	0.13	0.32
Naphthalene	0.076	0.10	0.40	0.53

		Wetnoa
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	90	70-130



# Client Sample ID: OA-1 Lab ID#: 1607434-02A

# MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v072720	Da	te of Collection: 7/21	/16 3:15:00 PM
Dil. Factor:	1.55	Da	te of Analysis: 7/27/1	16 09:48 PM
•	Rpt. Limit	Amount	Rpt. Limit	Amount

Compound (ppbv) (ppbv) (ug/m3) (ug/m3)

TPH ref. to Gasoline (MW=100) 16 Not Detected 63 Not Detected

•		Method Limits	
Surrogates	%Recovery		
1,2-Dichloroethane-d4	99	70-130	
Toluene-d8	97	70-130	
4-Bromofluorobenzene	92	70-130	



# Client Sample ID: OA-1 Lab ID#: 1607434-02B

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v072720sim	Date of Collection: 7/21/16 3:15 Date of Analysis: 7/27/16 09:48		I/16 3:15:00 PM
Dil. Factor:	1.55			16 09:48 PM
	Rpt. Limit	Amount	Rpt. Limit	Amount
Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Renzene	0.078	0.078	0.25	0.25

Compound	(ppbv)	(ppbv)	(ug/m3)	(ug/m3)
Benzene	0.078	0.078	0.25	0.25
Toluene	0.031	0.23	0.12	0.88
Ethyl Benzene	0.031	0.045	0.13	0.20
m,p-Xylene	0.062	0.17	0.27	0.74
o-Xylene	0.031	0.054	0.13	0.24
Naphthalene	0.078	0.030 J	0.41	0.16 J

J = Estimated value.

		Method	
Surrogates	%Recovery	Limits	
1,2-Dichloroethane-d4	106	70-130	
Toluene-d8	99	70-130	
4-Bromofluorobenzene	93	70-130	



# Client Sample ID: Lab Blank Lab ID#: 1607434-03A

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: Dil. Factor:	v072707 1.00	Date of Collection: NA Date of Analysis: 7/27/16 11:59 AM		
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	10	Not Detected	41	Not Detected

		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	92	70-130



# Client Sample ID: Lab Blank Lab ID#: 1607434-03B

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: Dil. Factor:	v072707sima 1.00			16 11:59 AM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)	
Benzene	0.050	0.0041 J	0.16	0.013 J	
Toluene	0.020	Not Detected	0.075	Not Detected	
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected	
m.p-Xvlene	0.040	Not Detected	0.17	Not Detected	

Not Detected

0.011 J

0.087

0.26

Not Detected

0.059 J

0.020

0.050

J = Estimated value.

o-Xylene Naphthalene

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	95	70-130



# Client Sample ID: CCV Lab ID#: 1607434-04A

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: v072702 Date of Collection: NA

Dil. Factor: 1.00 Date of Analysis: 7/27/16 08:47 AM

Compound %Recovery

TPH ref. to Gasoline (MW=100)

		Method Limits	
Surrogates	%Recovery		
1,2-Dichloroethane-d4	102	70-130	
Toluene-d8	101	70-130	
4-Bromofluorobenzene	96	70-130	



# Client Sample ID: CCV Lab ID#: 1607434-04B

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: v072702sim Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 7/27/16 08:47 AM

Compound	%Recovery	
Benzene	82	
Toluene	97	
Ethyl Benzene	102	
m,p-Xylene	103	
o-Xylene	107	
Naphthalene	85	

,		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130



# Client Sample ID: LCS Lab ID#: 1607434-05A

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: v072703 Date of Collection: NA

Dil. Factor: 1.00 Date of Analysis: 7/27/16 09:22 AM

Compound%RecoveryMethod LimitsTPH ref. to Gasoline (MW=100)Not Spiked

Surrogates	%Recovery	Method Limits		
1,2-Dichloroethane-d4	99	70-130		
Toluene-d8	98	70-130		
4-Bromofluorobenzene	96	70-130		



### Client Sample ID: LCSD Lab ID#: 1607434-05AA

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name: v072704 Date of Collection: NA
Dil. Factor: 1.00 Date of Analysis: 7/27/16 09:57 AM

Compound %Recovery Limits

TPH ref. to Gasoline (MW=100)

Not Spiked

		Method			
Surrogates	%Recovery	Limits			
1,2-Dichloroethane-d4	101	70-130			
Toluene-d8	100	70-130			
4-Bromofluorobenzene	96	70-130			



# Client Sample ID: LCS Lab ID#: 1607434-05B

#### MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v072703sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/27/16 09:22 AM

		Method		
Compound	%Recovery	Limits		
Benzene	80	70-130		
Toluene	92	70-130		
Ethyl Benzene	97	70-130		
m,p-Xylene	95	70-130		
o-Xylene	99	70-130		
Naphthalene	91	60-140		

,		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130



# Client Sample ID: LCSD Lab ID#: 1607434-05BB

# MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	v072704sim	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 7/27/16 09:57 AM

Compound	%Recovery	Metnod Limits		
Benzene	80	70-130		
Toluene	92	70-130		
Ethyl Benzene	97	70-130		
m,p-Xylene	95	70-130		
o-Xylene	101	70-130		
Naphthalene	93	60-140		

<i>,</i>		Method
Surrogates	%Recovery	Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

#### **TO-17 SAMPLE COLLECTION**

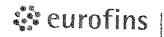


Sample Transportation Notice
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180 BLUE RAVINE ROAD, SUITE B **FOLSOM, CA 95630** (916) 985-1000 FAX (916) 985-1020

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Project Manager TRAVIS FLURA			Dunin u	L 1£			T 1	- 9-	<del>_</del>	
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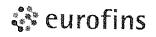
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Page \_\_\_\_ of \_\_\_ Project Manager TRAVIS FLORA TF Project Info: Turn Around Lab Use Only Collected by: (Print and Sign) Suchtaw Sun Time: Pressurized by: P.O. # Company STATER CONSULTING Email TRAVIS . FRORARSTAM Normal Normal Date: Address 1977 Los Garps gum City Los GARDS State CA Zip 95032 Project # 211602403 ☐ Rush Pressurization Gas: Phone 408-356-6124 Fax 408-356-613X Project Name CHEWOW N<sub>2</sub> specify He Date Time Canister Pressure/Vacuum Lab I.D. Field Sample I.D. (Location) of Collection of Collection Can # Analyses Requested Initial Final Receipt Final ol A CS-1 30838 7-21-16 1530 -27 -2 02H 641202 7-21-16 1515 -30 -3 Relinquished by: (signature) Date/Time Received by: (signature) Date/Time 7/23/14 12/16 1200 \* TPH-GEO, TPH-DEO, BIRT, EATI 0915 Relinquished by: (signature) Date/Time Received by: (signature) Date/Time Relinquished by: (signature) Date/Time Received by: (signature) Date/Time Shipper Name Air Bill # Lab Temp (°C) Condition: **Custody Seals Intact?** Work Order # Use Fed Ex NA Good Only Yes No None 1607434



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Page / of /

Project Manager TYPAVIS FLORA			Proje	ct Info:			Turn /	Around	Lab Uşe	Only	
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