File No. 150105 Committee Item No. 4
Board Item No. _____

COMMITTEE/BOARD OF SUPERVISORS

AGENDA PACKET CONTENTS LIST

Committee: Budget & Finance Sub-Committee **Date** April 8, 2015

Board of Supervisors Meeting **Date** _____

Cmte	Board	
☐	☐	**Motion**
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☐	☐	**Legislative Digest**
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☐	☐	**Application**
☐	☐	**Public Correspondence**

OTHER **(Use back side if additional space is needed)**

☒	☐	Airport Commission Resolution
☐	☐	
☐	☐	
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☐	☐	
☐	☐	
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Completed by: Linda Wong **Date** April 3, 2015
Completed by: _____ **Date** _____

[Affirming Categorical Exemption - San Francisco International Airport - Plot 700 Development Project]

Resolution affirming categorical exemption under the California Environmental Quality Act for the San Francisco International Airport Plot 700 Development Project.

WHEREAS, The Board of Supervisors (the "Board"), through Ordinance No. 64-14 passed on April 29, 2014, and approved by the Mayor on May 8, 2014, appropriated $1,969,830,773 of proceeds from the sale of bonds for capital improvement projects to the San Francisco Airport Commission (the "Airport Commission") for Fiscal Year 2013-2014, placing $30,204,929 of the appropriation on Budget and Finance Committee reserve pending approval by the Board of California Environmental Quality Act ("CEQA") findings for the Airport's Plot 700 Development Project (the "Project"), with the remainder of the appropriation placed on Controller's Reserve pending sale of the bonds; and

WHEREAS, On September 26, 2014, under File No. 2014.1104E, the San Francisco Planning Department, Environmental Planning Division, determined that the Project is categorically exempt from environmental review under CEQA as a Class 32 exemption pursuant to Section 15332 of the State CEQA Guidelines. The determination is on file with the Clerk of the Board of Supervisors in File No. 150105 and is incorporated herein by reference; and

WHEREAS, The Airport Commission, by Resolution No. 14-0236, adopted November 18, 2014, a copy of which is on file with the Clerk of the Board of Supervisors in File No. 150105, determined to proceed with the Project; now, therefore, be it

RESOLVED, That the Board affirms the determination made by the San Francisco Planning Department, Environmental Planning Division, that the Project is categorically exempt from CEQA.

President, District 5
BOARD of SUPERVISORS

BOS11, COB, B+F
Leg Dep, Land Use

City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco 94102-4689
Tel. No. 554-7450
Fax No. 554-7454
TDD/TTY No. 544-5227

London Breed

PRESIDENTIAL ACTION

Date: 2/10/15

To: Angela Calvillo, Clerk of the Board of Supervisors

Madam Clerk,
Pursuant to Board Rules, I am hereby:

☐ Waiving 30-Day Rule (Board Rule No. 3.23)

File No. _____ _____ (Primary Sponsor)

Title. _____

☒ Transferring (Board Rule No. 3.3)

File No. 150105 _____ (Primary Sponsor)

Title. Affirming Categorical Exemption - San Francis

From: Land Use & Economic Development Committee

To: Budget & Finance Committee

☐ Assigning Temporary Committee Appointment (Board Rule No. 3.1)

Supervisor _____

Replacing Supervisor _____

For: _____ (Date), _____ (Committee) Meeting

London Breed

London Breed, President
Board of Supervisors

San Francisco International Airport

January 23, 2015

Ms. Angela Calvillo
Clerk of the Board
Board of Supervisors
City Hall
1 Dr. Carlton B. Goodlett Place, Room 244
San Francisco, California 94102-4689

Subject: Categorical Exemption under the California Environmental Quality Act for the San Francisco International Airport Plot 700 Development Project

Dear Ms. Calvillo:

As required in Ordinance No. 64-14, I am forwarding for Board of Supervisors' affirmation a Categorical Exemption under the California Environmental Quality Act (CEQA) for the San Francisco International Airport Plot 700 Development Project.

On April 29, 2014, the San Francisco Board of Supervisors passed Ordinance No. 64-14 appropriating $1,969,830,773 of proceeds from the sale of bonds for capital improvement projects to the Airport Commission for FY2013-2014, placing $30,204,929 of the appropriation for the Plot 700 Development Project on Budget and Finance Committee reserve pending approval by the Board of Supervisors of the CEQA findings for this project. On September 26, 2014, the San Francisco Planning Department – Environmental Planning Division issued a Categorical Exemption under CEQA for the San Francisco International Airport Plot 700 Development Project. The Airport seeks Board of Supervisors' affirmation of the Categorical Exemption issued for the Plot 700 Development Project and release by the Budget and Finance Committee of the $30,204,929 on reserve for the Plot 700 Development Project.

Two sets of the following documents are enclosed for review:

- Proposed Board of Supervisors Resolution;
- Approved Board of Supervisors Ordinance No. 14-64;
- Approved Airport Commission Resolution No. 14-0236;
- San Francisco Planning Department – Environmental Planning Division CEQA Categorical Exemption Determination for Plot 700 Project; and
- SFO's request for a CEQA Categorical Exemption from the San Francisco Planning Department – Environmental Planning Division for the Plot 700 Project

Please contact Cathy Widener, Airport Government Affairs Manager at (650) 821-5023 if you have any questions or concerns regarding this matter.

Very truly yours,

Jean Caramatti
Commission Secretary

Enclosures

AMENDED IN COMMITTEE
4/16/14

FILE NO. 140232 ORDINANCE NO. 64-14

RO# 14021
SA# 27-21

[Appropriation - Airport Commission - Capital Improvement Projects - $1,969,830,773 - FY2013-2014]

Ordinance appropriating $1,969,830,773 of proceeds from the sale of bonds for capital improvement projects to the Airport Commission for FY2013-2014, placing $30,204,929 of the appropriation for the Plot 700 Development Project on Budget and Finance Committee reserve pending approval by the Board of Supervisors of the CEQA findings for this project, and placing the total appropriation of $1,969,830,773 on Controller's Reserve pending sale of the bonds.

Note: Additions are *single-underline italics Times New Roman*; deletions are ~~*strikethrough italics Times New Roman*~~.
Board amendment additions are double underlined.
Board amendment deletions are ~~strikethrough normal~~.

Be it ordained by the People of the City and County of San Francisco:

Section 1. The sources of funding outlined below are herein appropriated to reflect the funding available in FY2013-2014.

SOURCES Appropriation

Fund	Index/Project Code	Subobject	Description	Amount
5A CPF 4CP 2014 SFIA Capital Project Fund	*AIR5ACPF4CP CAC0PRJ-01	80111	Proceeds from Sale of Bonds	$1,969,830,773
Total SOURCES Appropriation				**$1,969,830,773**

Section 2. The uses of funding outlined below are herein appropriated and reflect the projected uses of funding to support capital improvement projects for the Airport Commission for FY2013-2014.

USES Appropriation

Fund	Index/Project Code	Subobject	Description	Amount
5A CPF 4CP 2014 SFIA Capital Project Fund	AIR047X4CP CAC047 UN4701	06700 Buildings, Structures, and Improvement	Airfield Improvements	$132,949,836
5A CPF 4CP 2014 SFIA Capital Project Fund	AIR050X4CP CAC050 UN5001	06700 Buildings, Structures, and Improvement	Airport Support Improvements	$262,481,628
5A CPF 4CP 2014 SFIA Capital Project Fund	AIR054X4CP CAC054 UN5401	06700 Buildings, Structures, and Improvement	Groundside Improvements	$196,185,000
5A CPF 4CP 2014 SFIA Capital Project Fund	AIR057X4CP CAC057 UN5701	06700 Buildings, Structures, and Improvement	Terminal Improvements	$767,810,966
5A CPF 4CP 2014 SFIA Capital Project Fund	AIR060X4CP CAC060 UN6001	06700 Buildings, Structures, and Improvement	Utilities Improvements	$97,007,270

Fund	Index/Project Code	Subobject	Description	Amount
5A CPF 4CP 2014 SFIA Capital Project Fund	AIRCSAPAC14 CACPRJ-AU	081C4 Controller Internal Audits	CSA 0.2% Controller's Audit Fund	$2,912,869
5A CPF 4CP 2014 SFIA Capital Project Fund	AIRFINCOST14 CACPRJ-FJ	07311 Bond Issuance Cost-Unamortized	Finance Cost	$510,483,204
Total USES Appropriation				**$1,969,830,773**

Section 3. The $30,204,929 appropriation for the Plot 700 Development Project is placed on Budget and Finance Committee reserve pending approval by the Board of Supervisors of the CEQA findings for this project. The total appropriation of $1,969,830,773 is placed on Controller's Reserve pending sale of the bonds.

Section 4. The Controller is authorized to record transfers between funds and adjust the accounting treatment of sources and uses appropriated in this ordinance as necessary to conform with Generally Accepted Accounting Principles.

Section 5. The Airport Commission may transfer funds from one capital project to another capital project herein providing that transfers do not materially change the size and scope of the original project. Annually, the Controller shall report to the Board of Supervisors on transfers of funds that exceed 10% of the original appropriation to which the transfer is made.

APPROVED AS TO FORM:

DENNIS J. HERRERA, City Attorney

By: _____

Deputy City Attorney

FUNDS AVAILABLE

BEN ROSENFIELD, Controller

By: _____

Date: ~~February 19, 2014~~

April 16, 2014

City and County of San Francisco
Tails
Ordinance

City Hall
1 Dr. Carlton B. Goodlett Place
San Francisco, CA 94102-4689

File Number: 140232 **Date Passed:** April 29, 2014

Ordinance appropriating $1,969,830,773 of proceeds from the sale of bonds for capital improvement projects to the Airport Commission for FY2013-2014, placing $30,204,929 of the appropriation for the Plot 700 Development Project on Budget and Finance Committee reserve pending approval by the Board of Supervisors of the CEQA findings for this project, and placing the total appropriation of $1,969,830,773 on Controller's Reserve pending sale of the bonds.

April 16, 2014 Budget and Finance Sub-Committee - AMENDED, AN AMENDMENT OF THE WHOLE BEARING NEW TITLE

April 16, 2014 Budget and Finance Sub-Committee - RECOMMENDED AS AMENDED

April 22, 2014 Board of Supervisors - PASSED ON FIRST READING

Ayes: 10 - Avalos, Breed, Campos, Chiu, Cohen, Farrell, Mar, Tang, Wiener and Yee
Absent: 1 - Kim

April 29, 2014 Board of Supervisors - FINALLY PASSED

Ayes: 11 - Avalos, Breed, Campos, Chiu, Cohen, Farrell, Kim, Mar, Tang, Wiener and Yee

File No. 140232

I hereby certify that the foregoing Ordinance was FINALLY PASSED on 4/29/2014 by the Board of Supervisors of the City and County of San Francisco.

Angela Calvillo
Clerk of the Board

Mayor

05/08/2014
Date Approved

AIRPORT COMMISSION

CITY AND COUNTY OF SAN FRANCISCO

RESOLUTION NO. 14-0236

DETERMINATION TO PROCEED WITH THE PLOT 700 PROJECT AND REQUEST FOR QUALIFICATIONS/PROPOSALS FOR CONTRACT NO. 10060.43, ARCHITECTURE AND ENGINEERING DESIGN SERVICES FOR THE GROUND TRANSPORTATION UNIT RELOCATION PROJECT.

WHEREAS, the Plot 700 Project will relocate and reconstruct the existing Ground Transportation Unit (GTU), Radio Shop, and Bus Maintenance (BMF) facilities from their present location to Plot 700, an approximately six-acre lot in the North Field area; and

WHEREAS, on September 26, 2014, under File No. 2014.1104E, the San Francisco Planning Department, Environmental Planning Division, determined that the Plot 700 Project is categorically exempt from the California Environmental Quality Act (Public Resources Code Section 21000, et seq.; "CEQA") as a Class 32 exemption pursuant to Section 15332 of the State CEQA Guidelines (Title 14, California Code of Regulations, Section 15000 et seq.); and

WHEREAS, the GTU Relocation Project, a component of the Plot 700 Project, will relocate the existing GTU facilities, including GTU offices and inspection bays, radio shop, car wash and vehicular fuel station, from the South Field to Plot 700; and

WHEREAS, Staff seeks to hire a design services consultant ("Consultant") that has proven ability to work in a highly collaborative environment with the appropriate expertise in projects of similar size and complexity; and

WHEREAS, Staff recommends that this Project utilize the Construction Manager/General Contractor (CM/GC) delivery method; and

WHEREAS, the Consultant will provide full engineering and architecture services including project programming, site investigation, architectural and engineering design, preparation of contract drawings and specifications, development of trade packages for bidding and technical support during construction; and

WHEREAS, the duration of this Contract is 24 months at an estimated cost of $1,200,000; now, therefore be it

RESOLVED, that the Commission hereby determines to proceed with the Plot 700 Project and authorizes the Director to proceed with implementation of the Plot 700 Project, subject to future Commission approvals usually made for a project of this type and size; and be it further

RESOLVED, that the Commission hereby authorizes the Director to issue a Request for Qualifications/Proposals for Contract No.10060.43, Architecture and Engineering Design Services for the Ground Transportation Unit Project, and to negotiate with the highest-ranked proposers in successive order until negotiations are successful with one of the qualified proposers; and, be it further

AIRPORT COMMISSION

CITY AND COUNTY OF SAN FRANCISCO

RESOLUTION NO. 14-0236

RESOLVED, that following successful negotiations, Staff will present for Commission consideration a recommendation to award Contract No.10060.43, Architecture and Engineering Design Services for the Ground Transportation Unit Relocation Project.

I hereby certify that the foregoing resolution was adopted by the Airport Commission

at its meeting of NOV 18 2014

Secretary

SAN FRANCISCO
PLANNING DEPARTMENT

CEQA Categorical Exemption Determination

PROPERTY INFORMATION/PROJECT DESCRIPTION

Project Address		Block/Lot(s)	
SFO - PLOT 700 PROJECT		NA	
Case No.	Permit No.	Plans Dated	
2014.1102E			
☐ Addition/ Alteration	☑ Demolition (requires HRER if over 45 years old)	☑ New Construction	☐ Project Modification (GO TO STEP 7)

Project description for Planning Department approval.

Demolish existing SFO ground transportation support facilities (shuttle bus, ground transportation unit, compressed natural gas station and tank storage, and fuel station and carwash) located at mid and southern portions of SFO and relocate to Plot 700, located on the northern edge of SFO.

STEP 1: EXEMPTION CLASS

TO BE COMPLETED BY PROJECT PLANNER

*Note: If neither class applies, an *Environmental Evaluation Application* is required.*	
☐	**Class 1 – Existing Facilities.** Interior and exterior alterations; additions under 10,000 sq. ft.
☐	**Class 3 – New Construction/ Conversion of Small Structures.** Up to three (3) new single-family residences or six (6) dwelling units in one building; commercial/office structures; utility extensions; change of use under 10,000 sq. ft. if principally permitted or with a CU.
☑	Class 32

STEP 2: CEQA IMPACTS

TO BE COMPLETED BY PROJECT PLANNER

If any box is checked below, an *Environmental Evaluation Application* is required.	
☐	**Transportation:** Does the project create six (6) or more net new parking spaces or residential units? Does the project have the potential to adversely affect transit, pedestrian and/or bicycle safety (hazards) or the adequacy of nearby transit, pedestrian and/or bicycle facilities?
☐	**Air Quality:** Would the project add new sensitive receptors (specifically, schools, day care facilities, hospitals, residential dwellings, and senior-care facilities within an Air Pollution Exposure Zone? Does the project have the potential to emit substantial pollutant concentrations (e.g., backup diesel generators, heavy industry, diesel trucks, etc.)? *(refer to EP _ArcMap > CEQA Catex Determination Layers > Air Pollution Exposure Zone)*
☐	**Hazardous Materials:** If the project site is located on the Maher map or is suspected of containing hazardous materials (based on a previous use such as gas station, auto repair, dry cleaners, or heavy manufacturing, or a site with underground storage tanks): Would the project involve 50 cubic yards or more of soil disturbance - or a change of use from industrial to residential? If yes, this box must be checked and the project applicant must submit an Environmental Application with a Phase I Environmental Site Assessment. *Exceptions: do not check box if the applicant presents documentation of enrollment in the San Francisco Department of Public Health (DPH) Maher program, a DPH waiver from the*

	Maher program, or other documentation from Environmental Planning staff that hazardous material effects would be less than significant (refer to EP_ArcMap > Maher layer).
☑	**Soil Disturbance/Modification:** Would the project result in soil disturbance/modification greater than two (2) feet below grade in an archeological sensitive area or eight (8) feet in a non-archeological sensitive area? *(refer to EP_ArcMap > CEQA Catex Determination Layers > Archeological Sensitive Area)*
☐	**Noise:** Does the project include new noise-sensitive receptors (schools, day care facilities, hospitals, residential dwellings, and senior-care facilities) fronting roadways located in the noise mitigation area? *(refer to EP_ArcMap > CEQA Catex Determination Layers > Noise Mitigation Area)*
☐	**Subdivision/Lot Line Adjustment:** Does the project site involve a subdivision or lot line adjustment on a lot with a slope average of 20% or more? *(refer to EP_ArcMap > CEQA Catex Determination Layers > Topography)*
☐	**Slope = or > 20%: :** Does the project involve excavation of 50 cubic yards of soil or more, square footage expansion greater than 1,000 sq. ft., shoring, underpinning, retaining wall work, or grading on a lot with a slope average of 20% or more? *Exceptions: do not check box for work performed on a previously developed portion of site, stairs, patio, deck, or fence work. (refer to EP_ArcMap > CEQA Catex Determination Layers > Topography)* **If box is checked, a geotechnical report is required and a Certificate or higher level CEQA document required**
☐	**Seismic: Landslide Zone:** Does the project involve excavation of 50 cubic yards of soil or more, square footage expansion greater than 1,000 sq. ft., shoring, underpinning, retaining wall work, grading –including excavation and fill on a landslide zone – as identified in the San Francisco General Plan? *Exceptions: do not check box for work performed on a previously developed portion of the site, stairs, patio, deck, or fence work. (refer to EP_ArcMap > CEQA Catex Determination Layers > Seismic Hazard Zones)* **If box is checked, a geotechnical report is required and a Certificate or higher level CEQA document required**
☐	**Seismic: Liquefaction Zone:** Does the project involve excavation of 50 cubic yards of soil or more, square footage expansion greater than 1000 sq ft, shoring, underpinning, retaining wall work, or grading on a lot in a liquefaction zone? *Exceptions: do not check box for work performed on a previously developed portion of the site; stairs, patio, deck, or fence work. (refer to EP_ArcMap > CEQA Catex Determination Layers > Seismic Hazard Zones)* **If box is checked, a geotechnical report will likely be required**
☐	**Serpentine Rock:** Does the project involve any excavation on a property containing serpentine rock? *Exceptions: do not check box for stairs, patio, deck, retaining walls, or fence work. (refer to EP_ArcMap > CEQA Catex Determination Layers > Serpentine)*
***If no boxes are checked above, GO TO STEP 3. <u>If one or more boxes are checked above, an *Environmental Evaluation Application* is required, unless reviewed by an Environmental Planner.</u>**	
☑	**Project can proceed with categorical exemption review. The project does not trigger any of the CEQA impacts listed above.**
Comments and Planner Signature (*optional*): The project would not result in impacts related to endangered/rare/threatened species, traffic, noise, air quality, or water quality. Archeo clearance issued.	

STEP 3: PROPERTY STATUS – HISTORIC RESOURCE
TO BE COMPLETED BY PROJECT PLANNER

PROPERTY IS ONE OF THE FOLLOWING: *(refer to Parcel Information Map)*	
☐	**Category A:** Known Historical Resource. **GO TO STEP 5.**
☐	**Category B:** Potential Historical Resource (over 45 years of age). **GO TO STEP 4.**
☑	**Category C:** Not a Historical Resource or Not Age Eligible (under 45 years of age). **GO TO STEP 6.**

STEP 4: PROPOSED WORK CHECKLIST
TO BE COMPLETED BY PROJECT PLANNER

Check all that apply to the project.	
☐	1. **Change of use and new construction.** Tenant improvements not included.
☐	2. **Regular maintenance or repair** to correct or repair deterioration, decay, or damage to building.
☐	3. **Window replacement** that meets the Department's *Window Replacement Standards*. Does not include storefront window alterations.
☐	4. **Garage work.** A new opening that meets the *Guidelines for Adding Garages and Curb Cuts*, and/or replacement of a garage door in an existing opening that meets the Residential Design Guidelines.
☐	5. **Deck, terrace construction, or fences** not visible from any immediately adjacent public right-of-way.
☐	6. **Mechanical equipment installation** that is not visible from any immediately adjacent public right-of-way.
☐	7. **Dormer installation** that meets the requirements for exemption from public notification under *Zoning Administrator Bulletin No. 3: Dormer Windows*.
☐	8. **Addition(s)** that are not visible from any immediately adjacent public right-of-way for 150 feet in each direction; does not extend vertically beyond the floor level of the top story of the structure or is only a single story in height; does not have a footprint that is more than 50% larger than that of the original building; and does not cause the removal of architectural significant roofing features.
Note: Project Planner must check box below before proceeding.	
☐	Project is not listed. **GO TO STEP 5.**
☐	Project **does not conform** to the scopes of work. **GO TO STEP 5.**
☐	Project involves **four or more** work descriptions. **GO TO STEP 5.**
☐	Project involves **less than four** work descriptions. **GO TO STEP 6.**

STEP 5: CEQA IMPACTS – ADVANCED HISTORICAL REVIEW
TO BE COMPLETED BY PRESERVATION PLANNER

Check all that apply to the project.	
☐	1. Project involves a **known historical resource (CEQA Category A)** as determined by Step 3 and conforms entirely to proposed work checklist in Step 4.
☐	2. **Interior alterations to publicly accessible spaces.**
☐	3. **Window replacement** of original/historic windows that are not "in-kind" but are consistent with existing historic character.
☐	4. **Façade/storefront alterations** that do not remove, alter, or obscure character-defining features.
☐	5. **Raising the building** in a manner that does not remove, alter, or obscure character-defining features.
☐	6. **Restoration** based upon documented evidence of a building's historic condition, such as historic photographs, plans, physical evidence, or similar buildings.
☐	7. **Addition(s)**, including mechanical equipment that are minimally visible from a public right-of-way and meet the *Secretary of the Interior's Standards for Rehabilitation*.

☐	8. **Other work consistent** with the *Secretary of the Interior Standards for the Treatment of Historic Properties* (*specify or add comments*):
☐	9. **Reclassification of property status** to Category C. *(Requires approval by Senior Preservation Planner/Preservation Coordinator)* a. Per HRER dated: _____ *(attach HRER)* b. Other *(specify)*:

Note: If ANY box in STEP 5 above is checked, a Preservation Planner MUST check one box below.

☐	**Further environmental review required.** Based on the information provided, the project requires an *Environmental Evaluation Application* to be submitted. **GO TO STEP 6.**
☐	**Project can proceed with categorical exemption review.** The project has been reviewed by the Preservation Planner and can proceed with categorical exemption review. **GO TO STEP 6.**

Comments (*optional*):

Preservation Planner Signature:

STEP 6: CATEGORICAL EXEMPTION DETERMINATION
TO BE COMPLETED BY PROJECT PLANNER

☐	**Further environmental review required.** Proposed project does not meet scopes of work in either *(check all that apply)*: ☐ Step 2 – CEQA Impacts ☐ Step 5 – Advanced Historical Review **STOP! Must file an *Environmental Evaluation Application.***
☑	**No further environmental review is required. The project is categorically exempt under CEQA.**

Planner Name:	**Signature:** Jean Poling Digitally signed by Jean Poling DN: dc=org, dc=sfgov, dc=cityplanning, ou=CityPlanning, ou=Environmental Planning, cn=Jean Poling, email=jeanie.poling@sfgov.org Date: 2014.09.26 10:19:01 -07'00'
Project Approval Action: Airport Commission Approval *If Discretionary Review before the Planning Commission is requested, the Discretionary Review hearing is the Approval Action for the project.	

Once signed or stamped and dated, this document constitutes a categorical exemption pursuant to CEQA Guidelines and Chapter 31 of the Administrative Code.

In accordance with Chapter 31 of the San Francisco Administrative Code, an appeal of an exemption determination can only be filed within 30 days of the project receiving the first approval action.

STEP 7: MODIFICATION OF A CEQA EXEMPT PROJECT

TO BE COMPLETED BY PROJECT PLANNER

In accordance with Chapter 31 of the San Francisco Administrative Code, when a California Environmental Quality Act (CEQA) exempt project changes after the Approval Action and requires a subsequent approval, the Environmental Review Officer (or his or her designee) must determine whether the proposed change constitutes a substantial modification of that project. This checklist shall be used to determine whether the proposed changes to the approved project would constitute a "substantial modification" and, therefore, be subject to additional environmental review pursuant to CEQA.

PROPERTY INFORMATION/PROJECT DESCRIPTION

Project Address (If different than front page)		Block/Lot(s) (If different than front page)
Case No.	Previous Building Permit No.	New Building Permit No.
Plans Dated	Previous Approval Action	New Approval Action
Modified Project Description:		

DETERMINATION IF PROJECT CONSTITUTES SUBSTANTIAL MODIFICATION

Compared to the approved project, would the modified project:	
☐	Result in expansion of the building envelope, as defined in the Planning Code;
☐	Result in the change of use that would require public notice under Planning Code Sections 311 or 312;
☐	Result in demolition as defined under Planning Code Section 317 or 19005(f)?
☐	Is any information being presented that was not known and could not have been known at the time of the original determination, that shows the originally approved project may no longer qualify for the exemption?
If at least one of the above boxes is checked, further environmental review is required	**CATEX FORM**

DETERMINATION OF NO SUBSTANTIAL MODIFICATION

☐	The proposed modification would not result in any of the above changes.
If this box is checked, the proposed modifications are categorically exempt under CEQA, in accordance with prior project approval and no additional environmental review is required. This determination shall be posted on the Planning Department website and office and mailed to the applicant, City approving entities, and anyone requesting written notice.	
Planner Name:	**Signature or Stamp:**

SAN FRANCISCO
PLANNING DEPARTMENT

ENVIRONMENTAL EVALUATION APPLICATION COVER MEMO - PUBLIC PROJECTS ONLY

In accordance with Chapter 31 of the San Francisco Administrative Code, an appeal of an exemption determination can only be filed within 30 days of the project receiving the first approval action.

Please attach this memo along with all necessary materials to the Environmental Evaluation Application.

Project Address and/or Title:	SFO Plot 700 Project
Project Approval Action:	Issue design & construction bid
Will the approval action be taken at a noticed public hearing? ☑ YES* ☐ NO	
* If YES is checked, please see below.	

IF APPROVAL ACTION IS TAKEN AT A NOTICED PUBLIC HEARING, INCLUDE THE FOLLOWING CALENDAR LANGUAGE:

End of Calendar: CEQA Appeal Rights under Chapter 31 of the San Francisco Administrative Code If the Commission approves an action identified by an exemption or negative declaration as the Approval Action (as defined in S.F. Administrative Code Chapter 31, as amended, Board of Supervisors Ordinance Number 161-13), then the CEQA decision prepared in support of that Approval Action is thereafter subject to appeal within the time frame specified in S.F. Administrative Code Section 31.16. Typically, an appeal must be filed within 30 calendar days of the Approval Action. For information on filing an appeal under Chapter 31, contact the Clerk of the Board of Supervisors at City Hall, 1 Dr. Carlton B. Goodlett Place, Room 244, San Francisco, CA 94102, or call (415) 554-5184. If the Department's Environmental Review Officer has deemed a project to be exempt from further environmental review, an exemption determination has been prepared and can be obtained on-line at http://sf-planning.org/index.aspx?page=3447. Under CEQA, in a later court challenge, a litigant may be limited to raising only those issues previously raised at a hearing on the project or in written correspondence delivered to the Board of Supervisors, Planning Commission, Planning Department or other City board, commission or department at, or prior to, such hearing, or as part of the appeal hearing process on the CEQA decision.

Individual calendar items: This proposed action is the Approval Action as defined by S.F. Administrative Code Chapter 31.

THE FOLLOWING MATERIALS ARE INCLUDED:

- ☑ 2 sets of plans (11x17)
- ☑ Project description
- ☑ Photos of proposed work areas/project site
- ☑ Necessary background reports (specified in EEA)
- ☐ MTA only: Synchro data for lane reductions and traffic calming projects

San Francisco International Airport

June 30, 2014

Ms. Jeanie Poling
San Francisco Planning Department
Environmental Planning Division
1650 Mission Street, Suite 400
San Francisco, California 94103

Subject: ***CEQA Categorical Exemption Request: Plot 700 Project, San Francisco International Airport***

Dear Ms. Poling:

The City and County of San Francisco through the San Francisco Airport Commission (Commission) proposes to consolidate and relocate the Airport's existing ground transportation support facilities located at mid and southern portions of the Airport to an unused parcel ("Plot 700") located on the northern edge of San Francisco International Airport (SFO or the Airport). The Commission seeks San Francisco Planning Department – Environmental Planning (SFEP) Division's concurrence that this Project is categorically exempt under the California Environmental Quality Act (CEQA).

The purpose of this Project is to enhance long-term land use planning at the Airport by relocating nonessential support services away from the airfield by preserving limited Airport land to accommodate forecast aircraft operations and to facilitate safe aircraft movements. The existing facilities that have been identified for demolition under the Project are currently undersized to effectively serve their purpose, unsafe for employees, and nearing the end of their useful life. Instead of demolishing and rebuilding the aging facilities in place, the Commission proposes to demolish the buildings that have been identified as in poor condition and to relocate these Airport buildings to an unused parcel (Plot 700) away from the airfield / aircraft operations. These buildings primarily serve SFO's ground transportation operations (SFO Shuttle Bus and transportation network companies[1] [TNC] vehicle permitting and inspections). Other facilities proposed for demolition and relocation includes a CCSF-only Fuel Station / Car Wash, which is co-located with the SFO Ground Transportation Unit (GTU) facility. All replacement buildings would be designed and built to LEED Gold standards, consistent with the CCSF Green Building Ordinance.

PROJECT DESCRIPTION

The Plot 700 site is an unused paved employee surface parking lot located about 0.6 miles east of U.S. Highway 101 (U.S. 101) and Interstate 380 (I-380), at the intersection of North Access Road and North Field Road (Figure A-1). As shown on **Figure A-1** in **Attachment A** of this letter, this 5-acre parcel of Airport property is located immediately south of the San Mateo County Transit (SamTrans) "Island" bus maintenance facility and the Safe Harbor Homeless Shelter. Historical uses of the site have been limited to a surface parking lot (used by United Airlines employees) since the area was filled in the late 1960s. Due to the continued downsizing of aircraft maintenance operations at United's SFO hub, United Airlines opted to release the site from its leasehold back to the Airport in 2012. The Plot 700 site is currently used by the Airport for temporary contract employee parking and construction staging.

[1] The California Public Utilities Commission defines a transportation network companies as providers of prearranged ground transportation services for compensation, such as limousines, taxi cabs, and shuttle vans.

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The Plot 700 Project would include construction of replacement facilities at the Plot 700 site and subsequent demolition of the existing facilities (**Figures A-2** through **A-4**), which is described in detail below. **Table 1** quantifies the facility demolition and replacements proposed as part of the Project.

TABLE 1

Proposed Project Components (Square Feet)

Project Components and Associated Features	Existing Uses	Existing Uses to be Retained	New Construction and/or Addition	Net Change [1]
SFO Shuttle Bus Facility:				
Mobile Trailer Office	1,500	0	6,000	4,500
Garage	5,500	0	7,700	2,200
Subtotal: SFO Shuttle Bus	7,000	0	13,700	6,700
SFO Ground Transportation Unit (GTU) Facility:				
Office [3]	6,740	0	7,400	3,680
Garage	3,290	0	8,960	3,470
Subtotal: SFO GTU [2]	9,210	0	16,360	7,150
SFO Fueling Facilities:				
CNG Station	0 [4]	0 [4]	3,940	3,940
CNG Tank Storage (Above ground)	0	0	3,130	3,130
CCSF Fuel Station and Car Wash [2]	4,900	0	5,700	680
Subtotal: SFO Fueling Facilities	4,900	0	12,770	7,750
PROJECT TOTAL (GSF) [2]	**21,930**	**0**	**42,830**	**20,900**

NOTES:
CNG = Compressed natural gas. GSF = Gross square footage. GTU = Ground Transportation Unit.

1 Net change is calculated by adding or subtracting retained uses from existing uses, and then adding the area of new construction to get a total net gain or loss, in square feet.

2 Subtotals do not include conversion of the existing GTU surface parking lot area to airfield operating area.

3 Proposed and existing GTU office area includes the SFO Radio Shop.

4 Existing CNG Station located adjacent to existing SFO Shuttle Bus is not included as an existing use in this table as it is not part of the Proposed Project.

SOURCES: HNTB Corporation, GTU Pre-Programming Report, 2013; SFO Asset Management, and SFO Design and Construction, 2014.

EXISTING FACILITIES (DEMOLITION)

The following includes a description of the existing facilities that would be demolished upon completion of construction of the replacement facilities at Plot 700.

SFO Shuttle Bus Facility

The existing SFO Shuttle Bus facility is a 7,000-square-foot facility located at the intersection of San Bruno Avenue and North McDonnell Road (**Figure A-2**). The SFO Shuttle Bus facility was constructed in 1983 and is no longer suitable for its intended operations; it has been identified by SFO building inspectors as a

building in "fair to poor condition" and is past its serviceable life. In addition, the existing maintenance garage and the associated bus parking stalls are undersized, and the facility is located adjacent to a thoroughfare with relatively high traffic rates. Under the Project, the SFO Shuttle Bus maintenance garage would be demolished and the mobile trailer (used for administrative functions) would be removed from the site. There are currently no plans to redevelop the existing Shuttle Bus facility for other Airport uses at this time.

SFO Fueling Facilities

A compressed natural gas (CNG) station is located on a shared lot adjacent to the SFO Shuttle Bus facility on North McDonnell Road (**Figure A-2**). This CNG station is open to the public and is used by airport ground transportation service providers (e.g., shuttle vans and taxis), SFO Shuttle Bus[2], CCSF vehicles, and private CNG vehicle owners. The CNG station would not be affected by construction or operation of the Project and would continue operating in its current capacity and location.

A CCSF fuel station and two-car wash rack (**Figure A-3**), totaling about 5,020 square feet, are collocated in the GTU facility lot, and accessible only to CCSF employees with appropriate badging for CCSF vehicles, including the Airport Bureaus of the San Francisco Police Department (SFPD) and San Francisco Fire Department (SFFD). The car wash rack only uses reclaimed water (no suds) from the Airport's Mel Leong Treatment Plant (MLTP). There are three underground storage tanks associated with the CCSF fuel station, including a 12,000-gallon diesel tank, a 12,000-gallon regular unleaded tank, and a 6,000-gallon super unleaded tank (for use only by SFFD fire engines and SFPD motorcycles). There are no known hazardous materials in the building materials. The existing fuel station and car wash were originally constructed for temporary Airport rental car operations and later converted to Airport use.

SFO Ground Transportation Unit (GTU) Facilities

As detailed on **Table 1** and shown on **Figure A-3**, the GTU facility is located on Airport property at the end of South Area Drive, east of South McDonnell Road and includes a 5,490-square-foot inspection garage and a 3,720-square-foot adjoining office building. The existing GTU facility does not adequately accommodate the functions and requirements for the GTU. Observed and staff-reported deficiencies of the GTU include inadequate storage and operating space, inadequate parking space for staff and TNC operators, and other safety-related concerns.

The purpose of the GTU facility is to process TNC operator permits and conduct vehicle inspections of ground transportation service providers (e.g., taxis, limos, shuttle vans) at the Airport. SFO GTU staff does not conduct any vehicle maintenance at the garage; the facility is only used to inspect TNC vehicles for compliance and permitting per State regulations. Like the CCSF Fuel Station, the GTU office building was originally constructed in 1990 to temporarily house Airport rental car operations while the permanent rental car facility was being constructed. In 1999, the office building was modified, and the four-bay inspection garage was added; and the SFO Radio Shop was provided a designated space within the office building. The facility is currently staffed with 23 full-time SFO GTU and SFO Radio Shop employees.

Servicing of in-situ vehicular radios, transponders and antenna equipment takes place in the SFO Radio Shop, which is co-located in the GTU inspection garage and office building. Observed and staff-reported deficiencies of the Radio Shop include: the secondary bay is too narrow for vehicle entrance, vehicular access for buses is inefficient, and there is inadequate emergency vehicle access.

[2] The SFO Shuttle Bus fleet runs on CNG.

Lastly, under the Project, the existing perimeter K-rail security fence would be removed and the asphalt surface parking lot would be repaved to airfield operating area.

REPLACEMENT FACILITIES (CONSTRUCTION)

The following replacement facilities would be constructed and occupied by staff prior to demolition of existing facilities. The layout of the Plot 700 and nearby land uses is shown on **Figure A-4**.

Other associated Project components include installation of a picket-style pointed perimeter security fence, restriping of the existing asphalt concrete surface parking lot, and installation of utility connections for potable water, industrial and sanitary sewer service, and an upgrade of existing electrical systems. All utility connections would be made to the nearest utility lines, located along the adjacent North Field Road.

All buildings would be constructed on a slab-on-grade foundation. No pile-driving would be required.

SFO Shuttle Bus Facility

As shown on **Figure A-5**, the replacement SFO Shuttle Bus facility would be located on the northern portion of the Plot 700 site. The SFO Shuttle Bus facility would be appropriately sized to accommodate existing shuttle bus operation and administration activities at the Plot 700 site. The replacement facility would be a one-story (30 feet tall), 13,700-square-foot building that provides for the same functions as the existing facility, including maintenance bays and storage facilities for tools, parts, and heavy equipment (**Figure A-6**). It would also provide some expanded administrative functions, such as a conference/training room, employee locker rooms, a kitchen, and staff offices.

SFO Ground Transportation Unit Facilities & CCSF Fuel Station / Car Wash

As shown on **Figure A-7**, the replacement GTU facility would include the SFO Radio Shop, GTU garage and administrative offices in one two-story building (30 feet above ground level). Consistent with existing GTU operations, the garage (8,960 square feet of the total 16,360 square-foot facility) would be partitioned for use by the SFO Radio Shop and by SFO GTU staff for TNC vehicle inspections. The administrative offices (7,400 square feet) would continue to be shared for use by SFO Ratio Shop and GTU staff.

SFO Fuel Facilities

A new public-use 3,940-square-foot CNG station and associated tank storage would be constructed at the northern end of the Plot 700 site (**Figure A-6**). The station would comprise of eight CNG pumps (four on each side of the fueling island under a 16-foot canopy), which would be sized to accommodate the SFO Shuttle buses. Five new above-ground CNG tanks (3,130 square feet) would be stored on-site within an area restricted by an 8-foot-high fence.

A replacement access-restricted CCSF vehicle fuel station and car wash would be constructed at the southern end of the Plot 700 site (**Figure A-7**). One 12,000-gallon tank and one 6,000-gallon[3] underground storage tank would be installed at the vehicle fuel station, which would comprise six bays for refueling under a 16-foot canopy. Similar to the existing car wash, the 2,890-square-foot replacement car wash would be one story (18 feet) tall and comprise two bays: a larger bay for buses and trucks and a smaller bay for cars and light trucks.

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[3] The replacement CCSF vehicle fuel station would have smaller fuel storage capacity than the existing fuel station. Currently, the Airport replenishes the

Site Access and Parking

The SFO Shuttle Bus is a 24/7 operation where staff work in three shifts (day, swing, and night). For the security and safety of staff working the evening/overnight shifts, there would be no pedestrian access to the Plot 700 site. At the northern end of the site, two-way vehicular ingress and egress would be available via two gates to North Access Road, and at the southern end of the site, two-way vehicular ingress and egress would be provided to both North Field Road and to the United Airlines Employee Parking lot (**Figure A-5**). Striping and signage in the parking lot would be modified to prohibit unauthorized parking at this location to limit non-core access to the site.

A total of 41 bus and 45 car parking spaces on the Plot 700 site would be dedicated to the Shuttle Bus facility; and a total of 11 bus and 118 car parking spaces would be dedicated to the GTU and radio shop. There would be no change to the number of GTU and SFO Shuttle Bus facility employees under the Proposed Project compared to the existing condition.

OTHER CONSIDERATIONS

- As CCSF-owned facilities, the replacement facilities would be designed and constructed to a minimum of LEED Gold standards, which would be consistent with CCSF's Green Building Ordinance.

- A Phase II Environmental Site Assessment was conducted at the Plot 700 site in May 2014, and no hazards or hazardous materials were identified. This study is provided as **Attachment B** to this letter. In summary, soil and groundwater samples were taken at six locations on the Plot 700 site. All samples were tested for total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), and leaking underground storage tank metals (cadmium, nickel, lead, chromium, and zinc). One location measured at 740 micrograms per liter, which exceeds the Regional Water Quality Control Board's (RWQCB) Environmental Screening Levels (ESL) action level for TPH (motor oil); however, this tested concentration is well below the SFO Mel Leong Treatment Plant (MLTP) Industrial Wastewater acceptance criteria of 20,000 micrograms per liter.[4] Water generated during dewatering activities would be pumped and delivered to the MLTP for treatment. All VOC samples in soil and groundwater tested below the RWQCB Order 99-045[5], which specifies cleanup standards to be applied at SFO for TPH (as motor and jet fuel). All metals tested below RWQCB clean up levels and the ESLs.

- The Plot 700 site, existing Shuttle Bus facilities, and existing GTU facilities are all within a fully developed sites, paved with asphalt concrete mixture. These sites do not contain any known rare or endangered plant or animal species, or habitat for such species, and the Project would not affect biological resources.

- The Project site is located outside of the San Francisco Bay Conservation and Development Commission's (BCDC's) 100-foot shoreline jurisdiction band.

- The nearest residential land uses from the Plot 700 site is located about 4,400 feet across U.S. 101, in the City of San Bruno and there are no other sensitive receptors near the Project site. The nearest residential land uses from the Shuttle Bus facility site is located about 2,100 feet across U.S. 101 in the City of San Bruno. Lastly, the nearest residential land uses from the GTU site is located about 1,000

[4] San Francisco International Airport, Mel Leong Treatment Plants – Sanitary and Industrial, Regional Water Quality Control Board Order No. R2-2013-011, NPDES No. CA0038318.
[5] San Francisco Bay Regional Water Quality Control Board Order No. 99-045. Available online: http://www.waterboards.ca.gov/sanfranciscobay/board_decisions/adopted_orders/1999/R2-1999-0045.pdf

feet across U.S. 101 in the City of Millbrae. Construction noise would not affect surrounding residences.

- The Project would relocate existing surface traffic from San Bruno Avenue (for the Shuttle Bus facility) and South McDonnell Road/Millbrae Ave (for the GTU and CCSF fueling station and car wash) to the northern edge of the Airport on North Access Road. This road is primarily used by airport users (e.g., cargo operators, SFO Mel Leong Treatment Plant employees, and the U.S. Coast Guard), as the road crosses an active taxiway and terminates at an airfield-access security gate. Therefore, this road has limited public traffic. Relocation of the SFO Shuttle Bus and GTU facilities is not anticipated to reduce level of service on North Access Road.

  Further, construction of the new CNG station is not anticipated to generate new traffic to the Airport as the existing CNG (not part of the Project) is centrally located, easily accessible for rental car and private vehicle drivers from U.S. 101, and highly visible compared to the new CNG station proposed at the Plot 700 site, which is located in a remote part of the Airport.

  As shown on **Figure A-4**, there are freeway ramps available from Plot 700 via North Access Road, including: (1) two freeway ramps for northbound U.S. 101 traffic; (2) one freeway ramp for southbound U.S. 101 traffic; and (3) one freeway ramp for westbound Interstate 380 (I-380) traffic. All ramps are located less than half a mile from the Plot 700 site. Within the Airport, the Project would not result in increased traffic volumes, although minor changes in traffic flow and pattern could occur. Operation of the Project would not affect roadways and traffic outside of the Airport.

CONSTRUCTION ACTIVITIES

If approved, construction of the Project is anticipated to commence in December 2014, followed by demolition of the existing facilities, which would commence immediately after the replacement facilities are constructed. Project construction and demolition would be completed within approximately 24 months of notice to proceed.

Due to year the existing facilities were built, it is unlikely that the Shuttle Bus and GTU facilities contain hazardous building materials. Nevertheless, the Airport includes regulatory testing requirements in all construction bid documents pertaining to handling of construction and demolition debris, testing, worker safety, and safe handling and disposal of construction materials. SFO or its construction contractor would conduct testing of all buildings identified for demolition before and during demolition. Demolition would be conducted in accordance with federal and state environmental and hazardous material management regulations, which includes requirements for proper disposal and acceptance thresholds at different classes of landfills (for unrecyclable materials). The Airport consistently recycles more than 90 percent of nonhazardous construction and demolition waste[6] and anticipates similar recovery rates from the SFO Shuttle Bus and GTU facilities.

Removal of the existing CCSF fuel station would require excavation and removal of three existing underground storage tanks, which would be disposed of in accordance with San Francisco Bay Regional Water Quality Control Board (RWQCB) regulations.

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[6] San Francisco International Airport, 2011 Environmental Sustainability Report, p. 98. Available online: http://flysfo.proofic.net.s3.amazonaws.com/default/download/about/reports/pdf/SFO_2011_Environmental_Sustainability_Report.pdf

Demolition and construction activities could temporarily raise dust levels in the project vicinity. SFO would implement construction dust control Best Management Practices (BMPs) during construction. These BMPs would include, but would not be limited to: 1) controlling construction dust as required by the Federal Aviation Administration (FAA) Advisor Circular 150/5370-2F[7]; 2) sprinkling demolition sites with water where dust is created; 3) covering stockpiles of soil, sand, and other fine materials; 4) covering trucks hauling debris, soil, and, and other fine materials; and 5) sweeping all roadways surrounding demolition and construction areas and along haul routes at least once per day.

APPROVALS AND PERMITS

The following is a list of approvals and permits required for completion of the Project.

- **FAA, Approval of Airport Layout Plan and environmental processing under the National Environmental Policy Act (NEPA).** As a federally obligated public use airport, SFO must obtain approval of the ALP with the Proposed Project and environmental processing under NEPA per FAA Order 1050.1E, *Environmental Impacts: Policies and Procedures*. Both the ALP approval and NEPA review would be processed at the local FAA San Francisco Airport District Office.
- **FAA, Air Traffic Division, Form 7460-1 Permit.** Approval of Form 7460-1, Notice of Proposed Construction or Alteration, to construct on airfield. While none of the Project activities would be conducted on active airfield, the FAA nevertheless requires submittal and approval of this form for construction activities occurring in close proximity to active airfields.
- **San Francisco Airport Commission, Approval to issue design and construction bid.**
- **SFO Building Inspection and Code Enforcement (BICE), Building Demolition and Construction Permits**. Issuance of permits. All plans, specifications, calculations, and methods of construction and demolition shall meet the code requirements found in the California Uniform Building Code and SFO standards in accordance with the Tenant Improvement Guide (TIG).[8]
- **San Francisco Arts Commission, Design and art installation program review.** All buildings at the Airport must undergo the Arts Commission review.
- **San Francisco Regional Water Quality Control Board (RWQCB), National Pollutant Discharge Elimination System (NPDES) permit.** Approval of revised NPDES for SFO's industrial and sanitary sewer system to include the Plot 700 site, which was covered under the United Airlines MOC NPDES permit.

REQUESTED ENVIRONMENTAL DETERMINATION

The Airport Commission seeks SFEP determination that construction of the Project is categorically exempt under CEQA §15332 (Class 32), Infill Development. The additional 20,900 square feet of replacement facilities and demolition of 21,930 square feet of existing facilities would enhance long term land use planning at the Airport by prioritizing limited land for aircraft movement/aeronautical uses. The Project would be developed on Plot 700 (approximately 5-acre site) that can be adequately served by all required utilities and public services. The site is entirely paved and has historically been used as a tenant employee parking lot. The Project would not result in significant effects relating to traffic, noise, air quality, cultural resources, hazards or water quality.

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[7] Federal Aviation Administration, Advisory Circular 150/5370-2F, *Operational Safety on Airports During Construction*, amended on September 29, 2011. Available online at: http://www.faa.gov/documentLibrary/media/Advisory_Circular/150_5370_2f.pdf

[8] The SFO Tenant Improvement Guide (TIG) is applicable to all tenants and Airport facilities. The TIG follows the California Building Code.

APPROVAL ACTION

Per Chapter 31 Amendments to the CCSF Administrative Code, the Airport Commission's anticipated approval to issue design and construction bid for the Project is the formal Approval Action. The specific date of the Airport Commission meeting in which the Project would be presented to SFEP when it becomes known.

* * *

Please contact me with any questions or concerns at (650) 821-7844 or audrey.park@flysfo.com.

Sincerely,

Audrey Park
Senior Environmental Planner

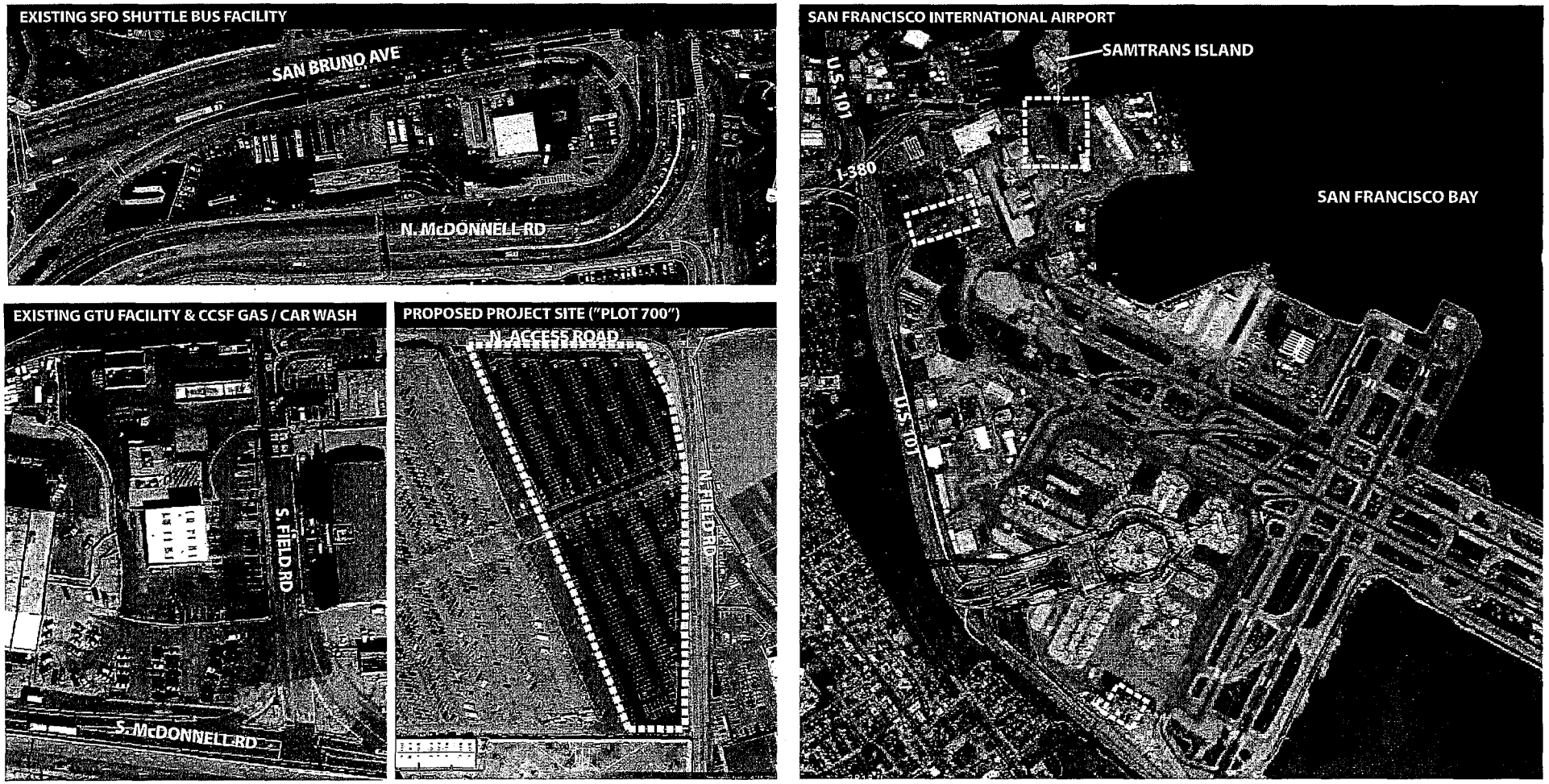
Attachments: Environmental Evaluation Application Cover Memo
Environmental Evaluation Application and Attachment
Attachment A – Project Figures

cc: L. Wider, SF OCA
Project File 4020.56.1

ATTACHMENT A

PROJECT FIGURES

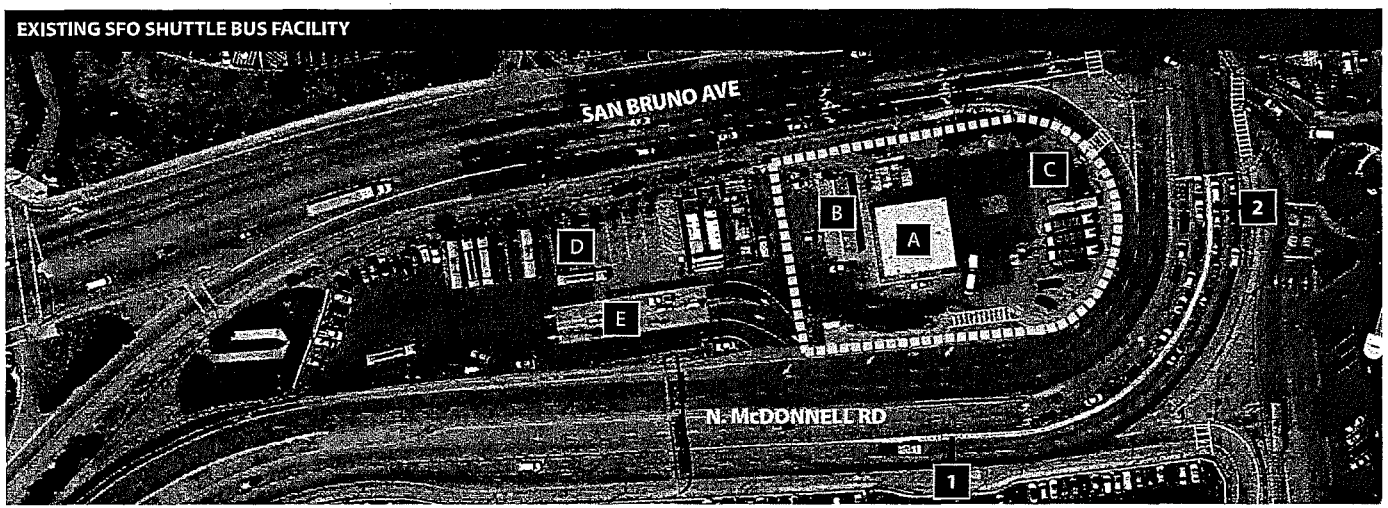
Figure Number	Figure Title
A-1	Proposed Project Locations
A-2	Existing SFO Shuttle Bus Facilities
A-3	Existing SFO Ground Transportation Unit and CCSF Fuel/Car Wash
A-4	Plot 700 Site – Aerial View
A-5	Proposed Project Site Plan
A-6	Conceptual Plan – SFO Shuttle Bus Facility and CNG Station
A-7	Conceptual Plan – SFO GTU and CCSF Fuel / Car Wash



Notes:
CCSF = City and County of San Francisco
GTU = Ground Transportation Unit

Source: Google Earth images, 2014
Prepared by: SFO Bureau of Planning and Environmental Affairs, 2014

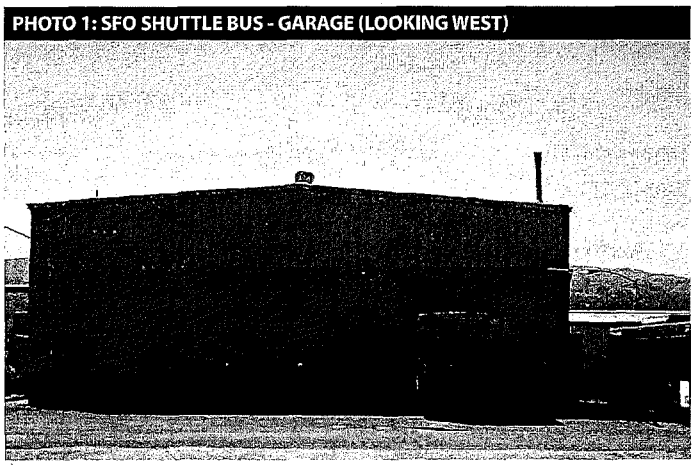
Figure A-1
Proposed Project Locations
SFO Plot 700 Project
June 2014

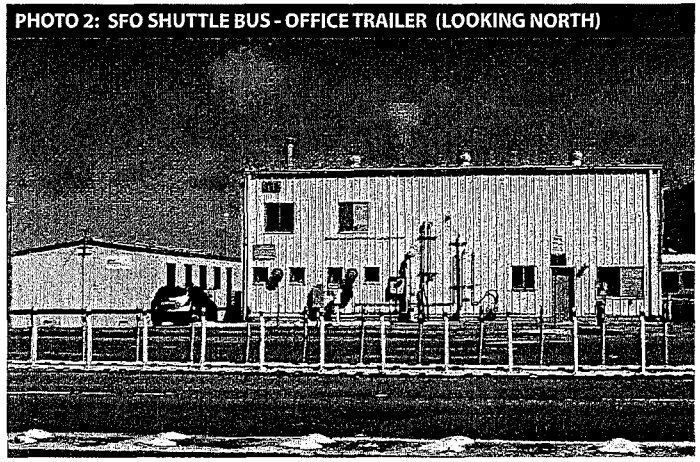


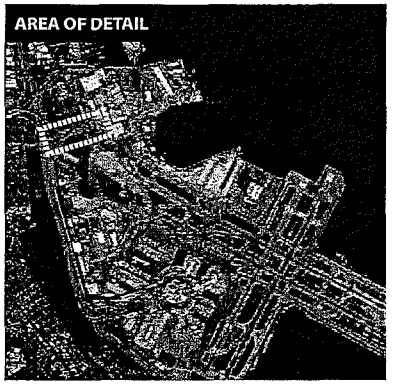
LEGEND

- A — SFO Shuttle Bus - Garage
- B — SFO Shuttle Bus - Office Trailer
- C — SFO Shuttle Bus Parking
- D — SFO Shuttle Bus Staging (Non-Maintenance)
- E — CNG Gas Station (Not part of Project)
- 1 — Photo Number: Location (and Direction of View)

NOTE:
CNG = Compressed Natural Gas

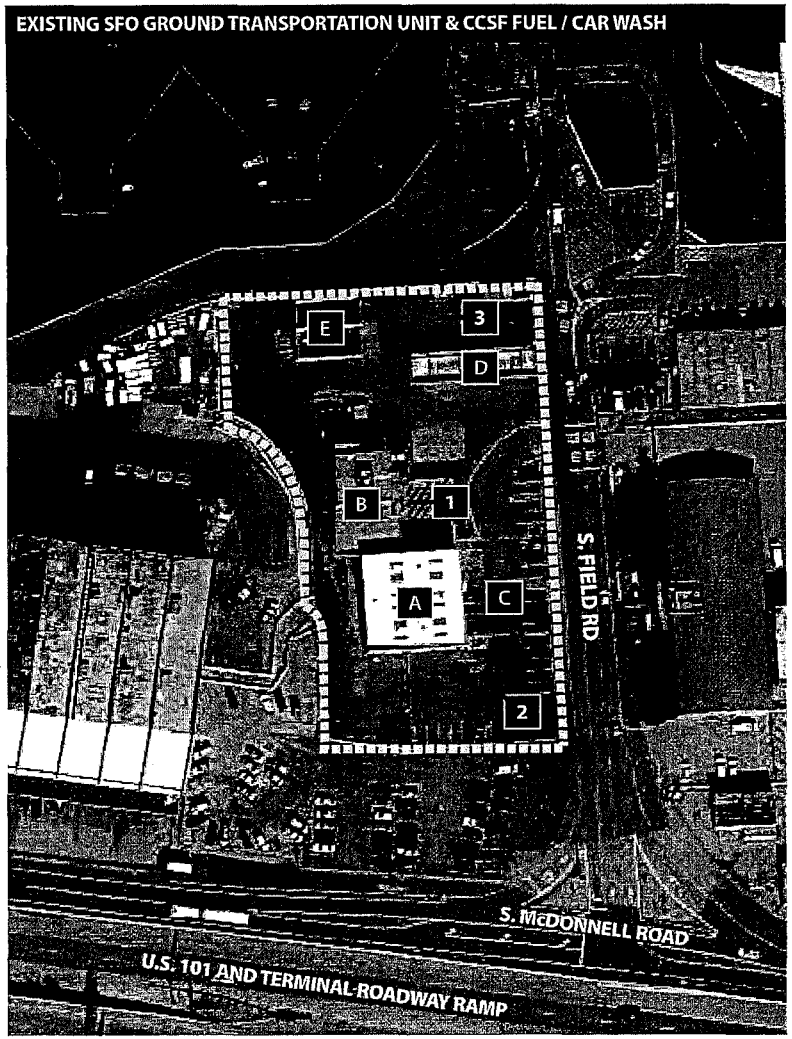


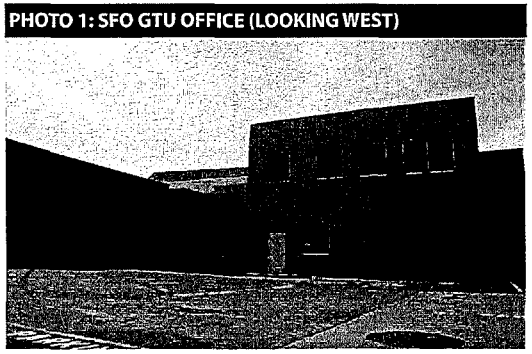


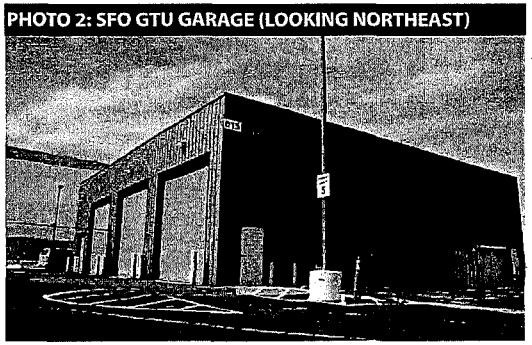


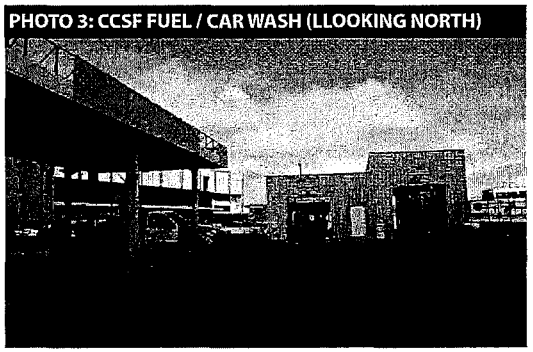
Sources: Basemap: Google Earth images, 2014; Photos: SFO Bureau of Planning and Environmental Affairs, 2014
Prepared by: SFO Bureau of Planning and Environmental Affairs, 2014

Figure A-2
Existing SFO Shuttle Bus Facility
SFO Plot 700 Project
June 2014





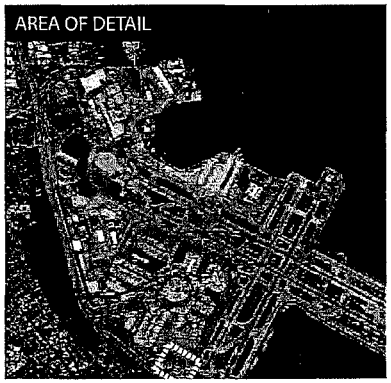




LEGEND

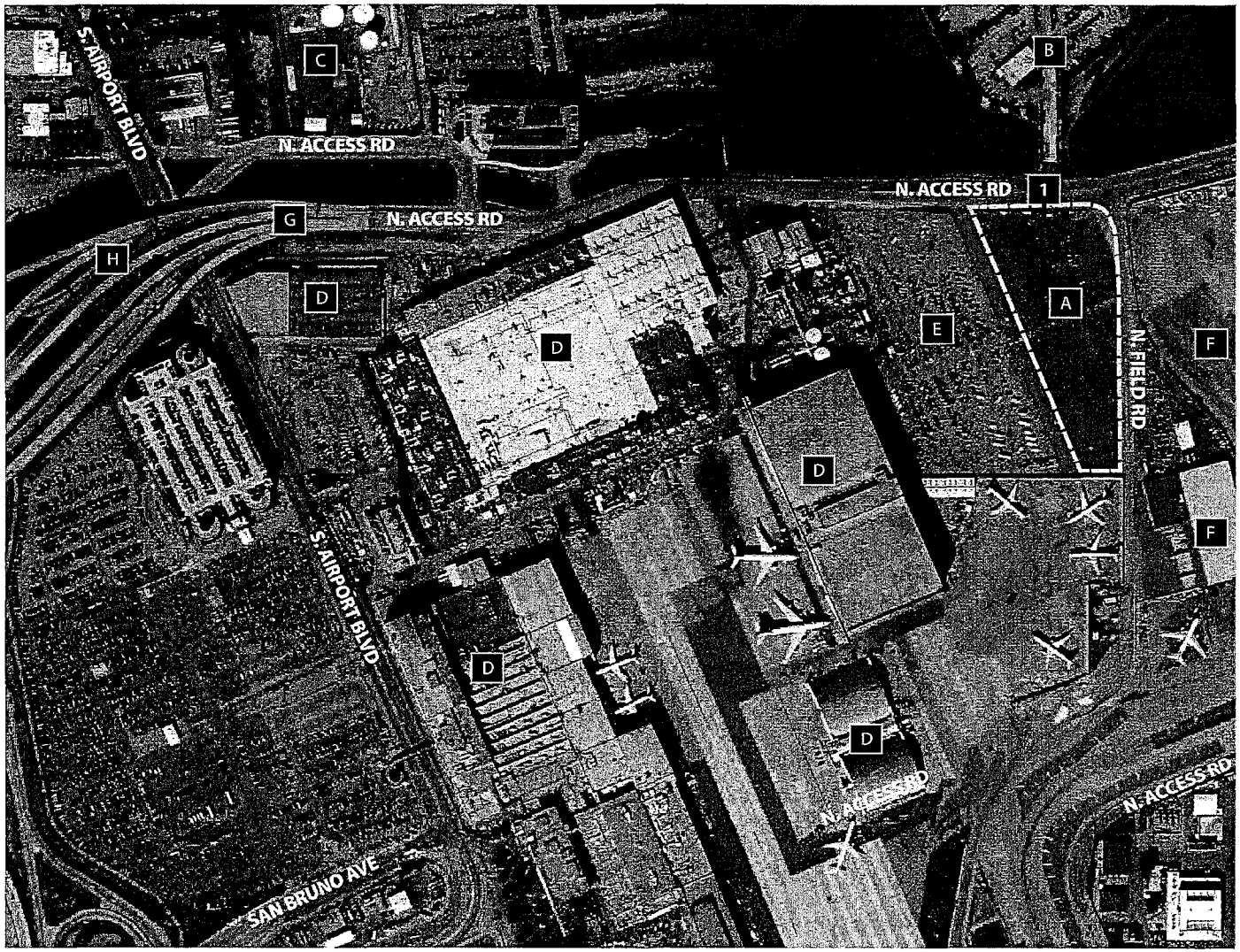
- A — SFO GTU Vehicle Inspections Garage
- B — SFO GTU Office and SFO Radio Shop
- C — SFO GTU Customer Parking
- D — CCSF Vehicle Gas Station (3 aisles)
- E — CCSF Vehicle Car Wash (2 ports)
- 1 — Photo Number: Photo Location (and Direction of View)

NOTES:
CCSF = City and County of San Francisco
GTU = Ground Transportation Unit



Sources: Basemap: Google Earth images, 2014; Photos: SFO Bureau of Planning and Environmental Affairs, 2014
Prepared by: SFO Bureau of Planning and Environmental Affairs, 2014

Figure A-3
Existing SFO GTU and CCSF Fuel and Car Wash Station
SFO Plot 700 Project
June 2014



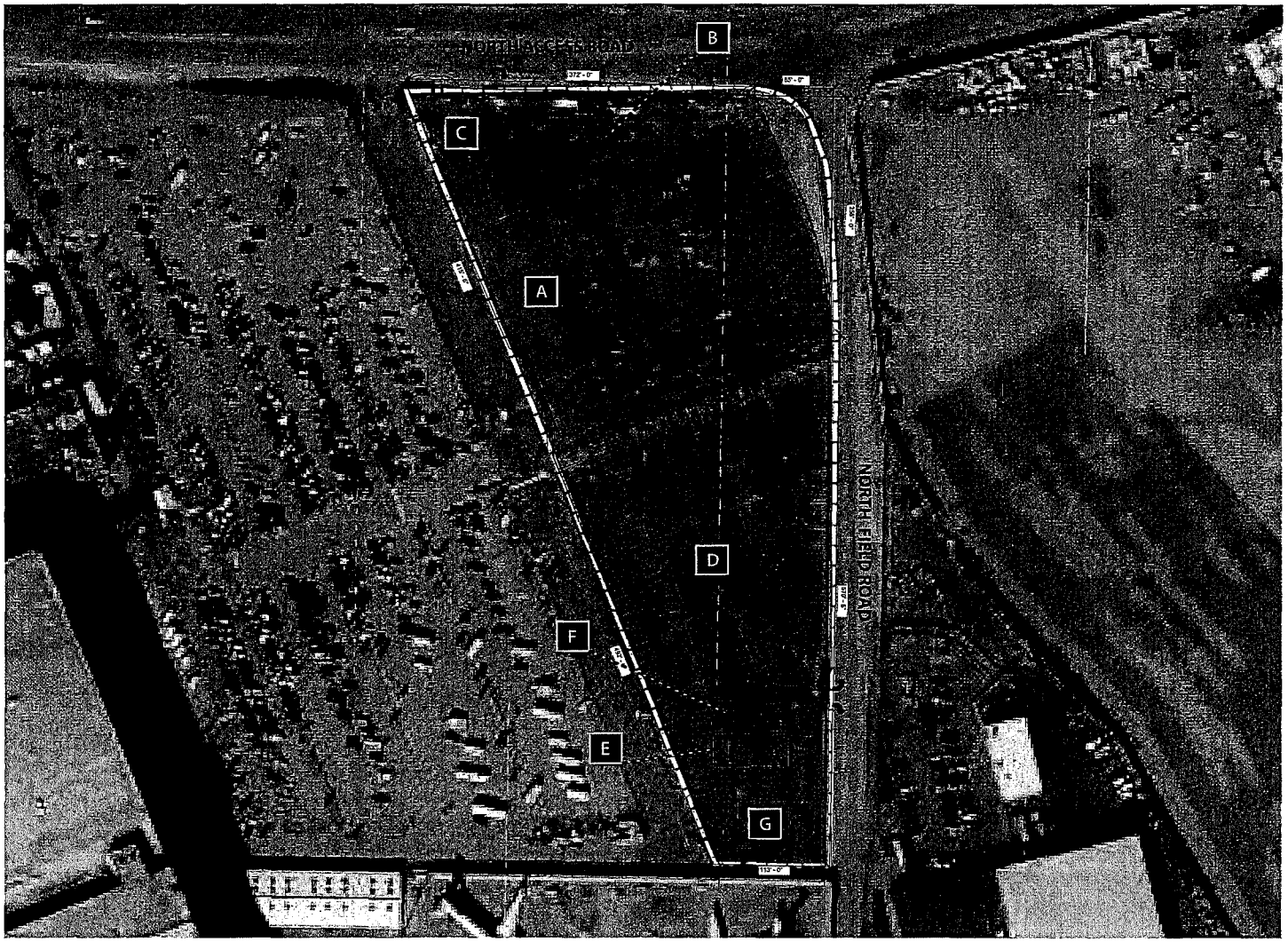
LEGEND

- A — Proposed Project Site (Plot 700)
- B — SamTrans Bus Maintenance Facility ("SamTrans Island")
- C — South San Francisco Wastewater Treatment Plant
- D — United Airlines Maintenace and Operations Center (UA MOC)
- E — United Airlines Employee Surface Parking Lot
- F — North Field Cargo Facilities
- G — U.S.101 N, U.S.101S, and I-380W Ramps via North Access Road
- H — U.S.101 N, I-380E, and I-380W Ramps via North Access Road/South Airport Blvd
- 1 — Photo Number: Location (and Direction of View)

PHOTO 1: EXISTING PLOT 700 (LOOKING SOUTH)

Sources: Aerial Image: Google Earth, 2014; site photograph: SFO Bureau of Planning & Environmental Affairs, 2014
Prepared by: SFO Bureau of Planning & Environmental Affairs, 2014

Figure A-4
Plot 700 Site - Aerial View
SFO Plot 700 Project
June 2014



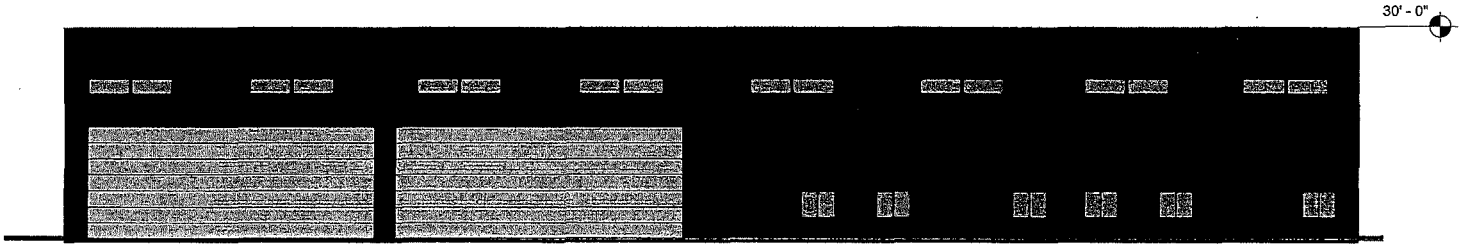
LEGEND

- **A** SFO Shuttle Bus Facility
  Offices (6,000 sq. ft.)
  Garage and Bus Maintenance Bays (7,700 sq. ft.)
  Parking Stalls (41 Buses and 45 Cars)
- **B** Public Use CNG Station (3,940 sq. ft.)
- **C** Above Ground CNG Storage Tanks (3,130 sq. ft.)
- **D** SFO Ground Transportation Unit Facility
  Offices (7,400 sq. ft.)
  Garage and Vehicle Inspection Bays (8,960 sq. ft.)
  Parking Stalls (11 Buses and 118 Cars)
- **E** CCSF Vehicle Gas Pumps (2,810 sq. ft.)
  (Restricted Access)
- **F** Under Ground CCSF Vehicle Gas Tanks
  (Under ground)
- **G** CCSF Vehicle Car Wash
  (Restricted Access)

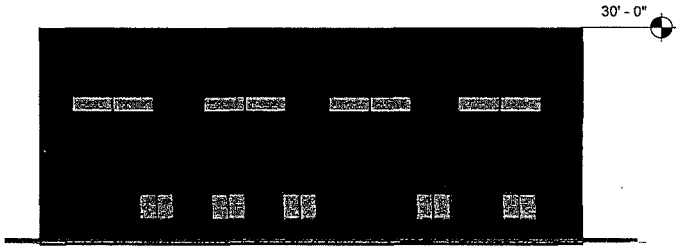
NOTES:
Drawing not to scale.
CNG = Compressed Natural Gas
sq. ft. = Square feet

Source: SFO Design & Construction, 2014
Prepared by: SFO Bureau of Planning and Environmental Affairs

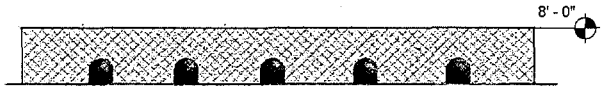
Figure A-5
Proposed Project Conceptual Site Plan
SFO Plot 700 Project
June 2014



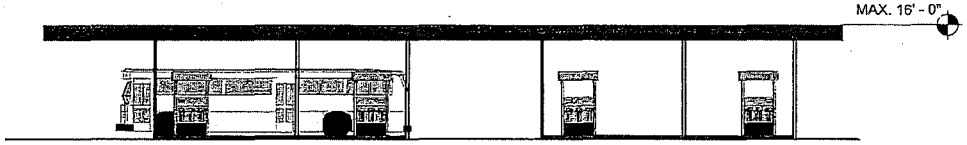
1 ELEVATION - SHUTTLE BUS FACILITY FRONT
1/16" = 1'-0"



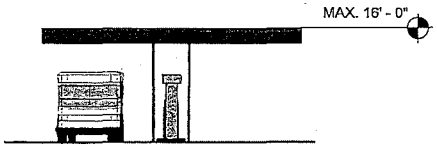
2 ELEVATION - SHUTTLE BUS FACILITY SIDE
1/16" = 1'-0"



3 ELEVATION - CNG TANK STORAGE
1/16" = 1'-0"



4 ELEVATION - CNG STATION FRONT
1/16" = 1'-0"

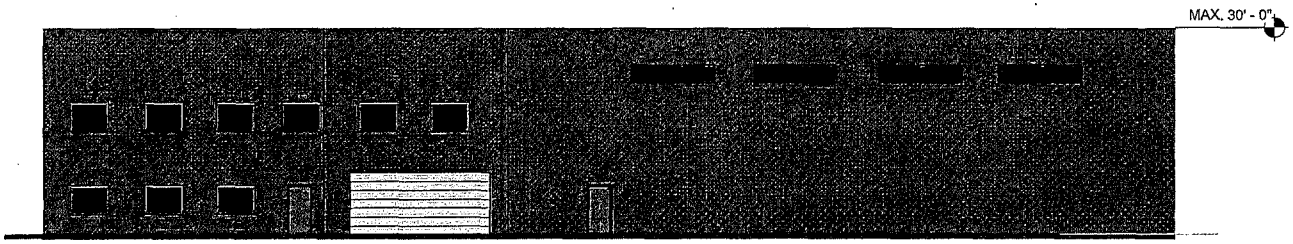


5 ELEVATION - CNG STATION SIDE
1/16" = 1'-0"

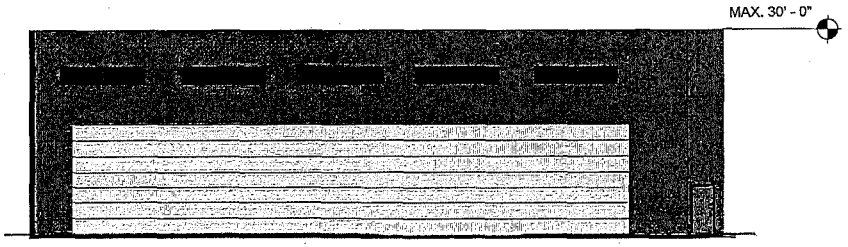
Notes:
CNG = Compressed Natural Gas
Three CNG tanks to be installed above ground.

Source: SFO Design & Construction, 2014
Prepared by: SFO Bureau of Planning and Environmental Affairs

Figure A-6
Conceptual Plan - SFO Shuttle Bus Facility and CNG Station
SFO Plot 700 Project
June 2014

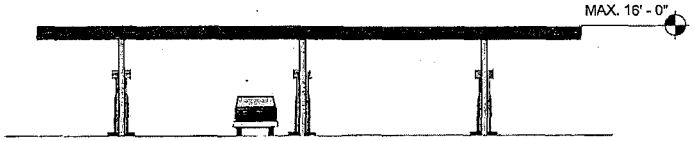


1 ELEVATION - GROUND TRANSPORTATION UNIT FRONT
1/16" = 1'-0"

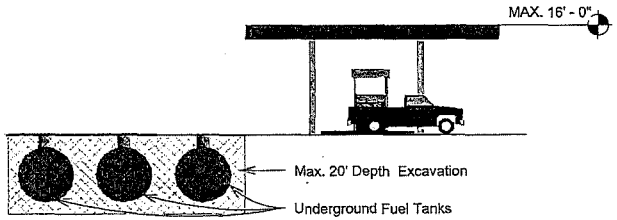


2 ELEVATION - GROUND TRANSPORTATION UNIT SIDE
1/16" = 1'-0"

3 ELEVATION - CCSF CAR WASH
1/16" = 1'-0"



4 ELEVATION - CCSF FUEL STATION FRONT
1/16" = 1'-0"



5 ELEVATION - CCSF FUEL STATION SIDE
1/16" = 1'-0"

Notes:
CCSF = City and County of San Francisco
GTU = Ground Transportation Unit

Source: SFO Design & Construction, 2014
Prepared by: SFO Bureau of Planning and Environmental Affairs

Figure A-7
Conceptual Plan - SFO GTU and CCSF Fuel / Car Wash Station
SFO Plot 700 Project
June 2014

ATTACHMENT B

PHASE II
ENVIRONMENTAL SITE ASSESSMENT

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ESA

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June 3, 2014

Ms. Audrey Park
Senior Environmental Planner
Bureau of Planning and Environmental Affairs
San Francisco International Airport
P.O. Box 8097
San Francisco, CA 94128

SUBJECT: Plot 700 Soil and Groundwater Investigation
San Francisco International Airport, San Francisco, California

Dear Ms. Park:

Environmental Science Associates (ESA) is pleased to provide the results of this soil and groundwater investigation conducted at the Plot 700 Site at San Francisco International Airport (SFO). This investigation was conducted as part of the proposed development of the Plot 700 Site. The San Francisco Airport Bureau of Planning and Environmental Affairs (SFBPEA) is considering the proposed construction of several buildings, ancillary structures and three underground storage tanks (USTs) at the Plot 700 Site, which is currently paved and undeveloped. Sites to the southeast and west of the Plot 700 site are known to have soil and groundwater contamination (SFO, Estimated Plume Boundaries, Total Petroleum Hydrocarbons in Soil, San Francisco International Airport, September 7, 2004; ENGEO, *Proposal for Soil and Groundwater Sampling*, November 20, 2013). The purpose of this soil and groundwater investigation is to evaluate the current subsurface conditions at the Plot 700 Site and to ascertain whether or not the contamination associated with the adjacent sites has affected conditions at Plot 700.

Field Investigation

Six soil borings (B1 through B-6) were drilled at the locations shown on Figure 1.

Permitting and Clearance Activities

Prior to drilling, the soil boring locations were marked with white spray paint and then cleared by a private utility locator for the presence of subsurface utilities and other obstructions using a ground penetrating radar (GPR), electromagnetic conductivity meter (EM), and a radio frequency pipe and cable locator. ESA also acquired the as-built utility map from SFO (see Figure 1) and notified Underground Service Alert who contacted agencies and utility service providers with underground lines in the area.

Drilling of Borings and Sample Collection

Borings B-1 through B-6 were drilled on May 19, 2014, using a direct push sampling rig to 15 feet below ground surface (bgs). The borings were lithologically logged by an ESA geologist using guidance from ASTM D2488, which is based on the Unified Soil Classification System, and standard geologic techniques. The exploratory boring logs are in Appendix A.

The first 4 feet of the borings were hand augered to verify that no subsurface utilities were present. The rest of the borings were drilled using the direct push sampler lined with a clear acetate sleeve. Two soil samples were collected from each boring at various depths above groundwater. The site is close to San Francisco Bay and the depth to groundwater was clearly controlled by tidal action. In the morning, it appeared that the boreholes might not produce groundwater for sampling, so all six borings were drilled and left open to see if groundwater would rise. The slough to the north of the site filled with bay water by mid-day as the tide rose. The depth to groundwater in the borings also rose, reaching as shallow as 5 feet bgs by the afternoon.

Soil samples were sealed in tubes with Teflon end sheets and plastic caps, labeled, and placed in a cooler with ice. Grab groundwater samples were collected using a peristaltic pump and Tygon tubing inserted down a temporary slotted PVC well casing placed in the open borehole. Samples were then transported under chain of custody documentation to the analytical laboratory. After collection of the samples, the borings were sealed with a cement grout to near the ground surface, followed by cold patch asphalt to the surface.

Drilling and sampling equipment that came in contact with soil was decontaminated by washing using phosphate-free soap (Alconox) and water solution, followed by two deionized rinses or by steam cleaning. Purge water and decontamination fluids were removed from the Site for disposal.

Analytical Testing and Reporting

All soil and grab groundwater samples were analyzed for the following chemicals using the listed analytical test methods. The analytical reports are provided in Appendix A.

- Total petroleum hydrocarbons (TPH) fuel fingerprint by 8015B with silica gel cleanup
- Volatile Organic Compounds (VOCs) and oxygenates by 8260B
- Leaking Underground Fuel Tank (LUFT) 5 Metals (cadmium, chromium, lead, nickel, and zinc; SW 6020 and E 200.8)

The analytical results were compared to the action levels in the Regional Water Quality Control Board - San Francisco Bay Region (RWQCB) Order No. 99-045, which provides Cleanup Standards to be applied at the SFO for TPH as gasoline, jet fuel, and diesel; and certain VOCs. The Plot 700 site is located within the Human Health Protection Zone (HHPZ) at SFO. For those detected chemicals for which Cleanup Standards have not been established, those detected chemicals were compared to the Environmental Screening Levels (ESLs), also published by the RWQCB (December 2013 version). ESLs are used by the RWQCB to screen analytical results and assess whether further action is needed.

Under Order 99-045, soil and groundwater with concentrations below the Cleanup Standards and ESLs would be considered by regulatory agencies to not warrant further action. In addition, SFO operates the Mel Leong Treatment Plant, where water from construction dewatering activities could be taken. The water analytical results were also compared to the treatment plant effluent limit of 20 milligrams per liter (mg/L) for oil and grease in water, as listed in RWQCB Order R2-2013-0011.

Results

Field Observations

The soil borings encountered fill from the ground surface to various depths ranging from 5-1/2 to 12 feet bgs. The fill was highly variable consisting of mixtures of mostly sand, silt, and gravel with variable amounts of clay. With increasing depth, the fill included increasing volumes of Bay Mud, a native plastic, organic, black clay common to the margins of San Francisco Bay. Bay Mud was encountered in all borings below the fill to the total depth explored of 15 feet bgs. Bay Mud has a strong rotting vegetation odor that tends to overpower other odors. However, a gasoline odor was noted in Boring B-6 from about 4 to 7 feet bgs.

Initially, the borings drilled in the morning had very little groundwater at the bottom of the borings. However, it was observed that the slough just north of the site was filling in with the tide by later in the morning. The borings were left open all day and began to fill to as shallow as 5 feet below the ground surface in the afternoon enabling the collection of grab groundwater samples from all borings. As noted above, Boring B-1 only produced enough groundwater to analyze for a fuel fingerprint. In addition, the groundwater in all boreholes was very turbid, a common occurrence in water samples collected from Bay Mud. Although all boreholes were all left open for hours after drilling, the water samples collected for metals analyses was still very turbid with mud. Consequently, the water samples could not be filtered and the metals analysis results are for total metals, not dissolved metals.

Petroleum Hydrocarbon Results

The analytical results for all of the soil samples and four of the six groundwater samples reported detections of diesel- and oil-range hydrocarbons.

TABLE 1
PETROLEUM HYDROCARBON RESULTS

Boring	Media	Depth in Feet Below Ground Surface	Diesel Range (C10-C23)	Motor Oil Range (C18-C36)	Diesel Cleanup Standards	Motor Oil ESLs	Units
B-1	Soil	1	1.8	10	200	500	mg/kg
B-1	Soil	7	9.1 (a)	6.3	200	500	mg/kg
B-1	Water	n/a	140	300	600	640	ug/L
B-2	Soil	2	27	130	200	500	mg/kg
B-2	Soil	7	2.7	6.8	200	500	mg/kg
B-2	Water	n/a	nd (50)	nd (250)	600	640	ug/L
B-3	Soil	2.5	11	39	200	500	mg/kg
B-3	Soil	10	1.1	6.3	200	500	mg/kg
B-3	Water	n/a	nd (50)	nd (250)	600	640	ug/L
B-4	Soil	2	35	580	200	500	mg/kg
B-4	Soil	4	12	100	200	500	mg/kg
B-4	Water	n/a	86	510	600	640	ug/L
B-5	Soil	2	13	53	200	500	mg/kg
B-5	Soil	3.5	32	150	200	500	mg/kg
B-5	Water	n/a	110	nd (250)	600	640	ug/L
B-6	Soil	2	3.6	34	200	500	mg/kg
B-6	Soil	4	52	57	200	500	mg/kg
B-6	Water	n/a	260 (a)	**740**	600	**640**	ug/L

Notes:
mg/kg = milligrams per kilogram, approximately equivalent to parts per million
ug/L = micrograms per liter, approximately equivalent to parts per billion
(a) = Many detected peaks are at the lower carbon range end of C9-C12 resembling Stoddard Solvent or more likely the residual heavier end of gasoline (C6-C12)
n/a = not applicable
Cleanup Standards are from RWQCB Order 99-045 - Human Health Protection Zone (HHPZ) – Tier 0
Motor Oil ESLs are from RWQCB Commercial/Industrial ESLs, December 2013 version

SOURCE: McCampbell Analytical, Inc., 2014

The only exceedance of an action level was for the groundwater sample collected from Boring B-6, located at the far southern end of Plot 700 where the fuel underground storage tanks are proposed to be installed. The TPH-motor oil range of 740 micrograms per liter (ug/L) exceeds the ESL of 640 ug/L. However, there were no petroleum hydrocarbon VOCs (e.g., benzene, toluene, ethylbenzene, or xylenes) detected in the same sample, indicating that the motor oil range hydrocarbons do not include volatile compounds that would pose a respiratory risk to construction workers. SFBPEA have advised that water generated during dewatering activities would be disposed of via the Mel Leong wastewater treatment plant, which is permitted to receive and treat water with low concentrations of organic compounds such as motor oil. The waste water treatment plant effluent limit for oil and grease is 20 mg/L or 20,000 ug/L. No effluent limit is listed for diesel range hydrocarbons, so the oil and grease effluent was applied as a similar surrogate. The maximum reported concentration of 740 ug/L diesel range hydrocarbons in the water sample collected from Boring B-6 is well below the effluent limit. This means that the treatment plant would be able to accept the water for treatment since the water already meets their effluent limit.

Volatile Organic Compound Results

No VOCs were detected in any of the soil samples above reporting limits.

Acetone was detected in groundwater samples at concentrations ranging from 11 to 38 ug/L in Borings B-2, B-4, B-5, and B-6. Order No. 99-045 does not provide Cleanup Standards for acetone. Acetone is a common laboratory cross-contaminant because of its use in analytical testing and the cleaning of equipment, and the source should be considered to be from the laboratory since no site-specific source is known. In any case, the reported acetone concentrations are below the ESL of 1,500 ug/L, indicating that the RWQCB would not require further action for acetone.

Methyl ethyl ketone (MEK or 2-butanone) was detected in groundwater samples at concentrations ranging from 2.3 to 4.5 ug/L in Borings B-2, B-4, and B-6. Order No. 99-045 does not provide Cleanup Standards for MEK. MEK is a common laboratory cross-contaminant because of its use in analytical testing and the cleaning of equipment, and the source should be considered to be from the laboratory since no site-specific source is known. In any case, the reported MEK concentrations are below the ESL of 14,000 ug/L, indicating that the RWQCB would not require further action for MEK.

No other VOCs were detected in the groundwater samples above reporting limits.

Metals Results

Cadmium was detected in soil samples at concentrations ranging from below reporting limits to 0.72 milligrams per kilogram (mg/kg). Order No. 99-045 does not provide Cleanup Standards for cadmium. The reported cadmium concentrations are below the ESL of 12 mg/kg, indicating that the RWQCB would not require further action for cadmium.

Chromium was detected in soil samples at concentrations ranging from 40 to 100 mg/kg. Order No. 99-045 does not provide Cleanup Standards for chromium. The reported chromium concentrations are below the ESL of 2,500 mg/kg, indicating that the RWQCB would not require further action for chromium.

Lead was detected in soil samples at concentrations ranging from 3.7 to 12 mg/kg. Order No. 99-045 does not provide Cleanup Standards for lead. The reported lead concentrations are below the ESL of 320 mg/kg, indicating that the RWQCB would not require further action for lead.

Nickel was detected in soil samples at concentrations ranging from 22 to 150 mg/kg. Order No. 99-045 does not provide Cleanup Standards for nickel. The reported nickel concentrations are at or below the ESL of 150 mg/kg, indicating that the RWQCB would not require further action for nickel.

Zinc was detected in soil samples at concentrations ranging from 40 to 100 mg/kg. Order No. 99-045 does not provide Cleanup Standards for zinc. The reported zinc concentrations are below the ESL of 600 mg/kg, indicating that the RWQCB would not require further action for zinc.

Summary

The reported chemical concentrations were below action levels for all soil samples. Only the one detection of TPH in the motor oil range in groundwater exceeded the ESL for motor oil in water. However, because no petroleum-based VOCs were detected in groundwater, the residual oil does not include detectable volatile chemicals that would present a respiratory risk to construction workers. In addition, SFBPEA's construction plan is to dispose of water generated during dewatering activities to the SFO wastewater treatment plant, which is permitted to receive and treat water with low concentrations of organic compounds such as motor oil.

Limitations

This work was performed in a manner consistent with that level of care and skill ordinarily exercised by other members of ESA's profession practicing in the same locality, under similar conditions and at the date the services are provided. The work performed was based on project information provided by regulatory agencies and the Client. Our conclusions, opinions and recommendations are based on the limited information provided for our evaluation. It is possible that conditions could vary between or beyond the data evaluated. ESA makes no other representation, guarantee or warranty, express or implied, regarding the services, communication (oral or written), report, opinion, or instrument of service provided.

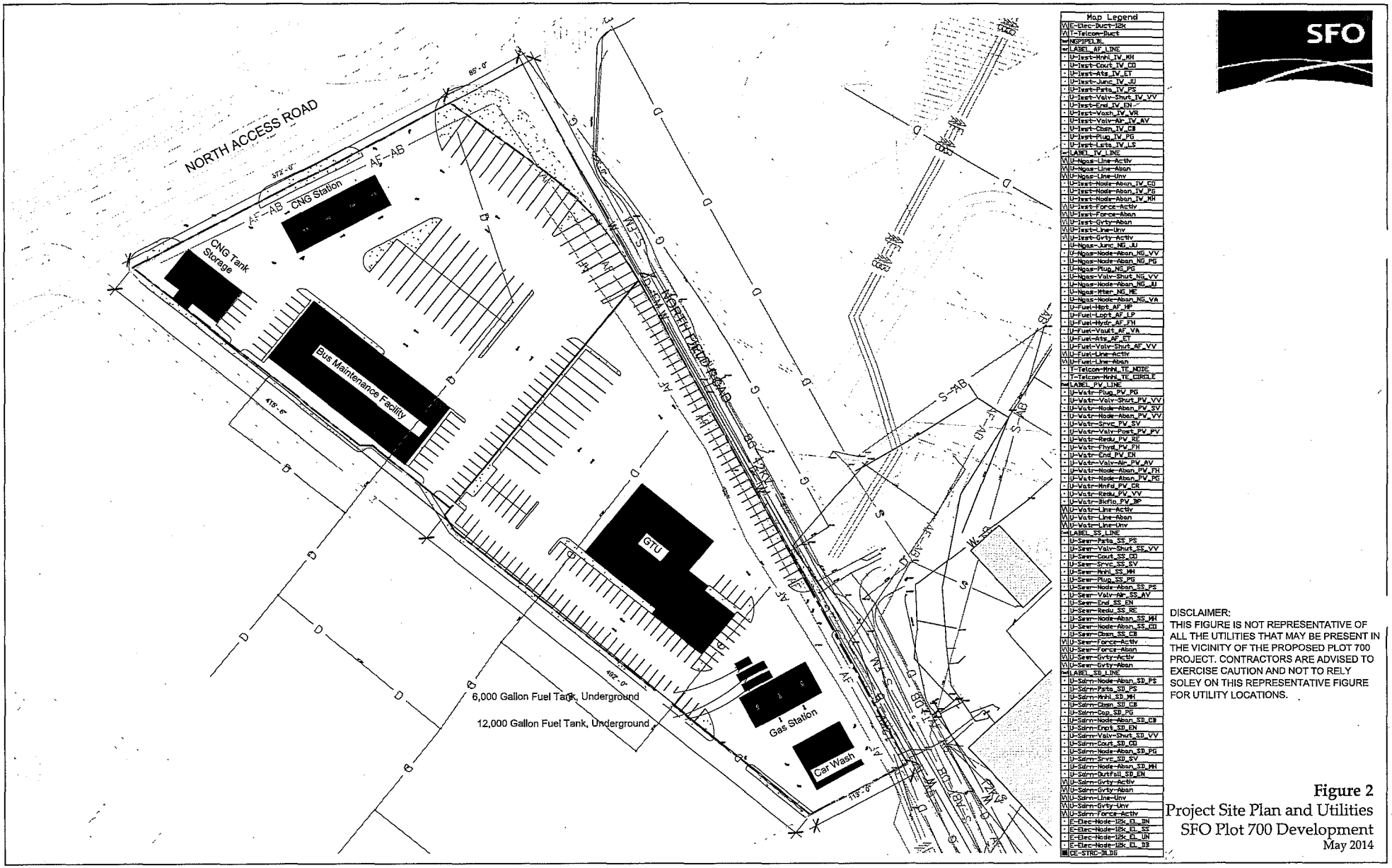
All information gathered during the study by ESA is considered confidential and will be released only upon written authorization from you, our client, or as required by law. California law requires a person to inform the state if a situation is encountered that can be considered an immediate endangerment to the public's health or welfare and/or to the environment.

If you have any questions or would like additional information, please contact us. We appreciate this opportunity to be of service to you and look forward to moving this project forward.

Sincerely,

Michael Burns, CHG
Principal Geologist

cc: Julie Watson, ESA
Adrian Jones, ESA



DISCLAIMER:
THIS FIGURE IS NOT REPRESENTATIVE OF ALL THE UTILITIES THAT MAY BE PRESENT IN THE VICINITY OF THE PROPOSED PLOT 700 PROJECT. CONTRACTORS ARE ADVISED TO EXERCISE CAUTION AND NOT TO RELY SOLEY ON THIS REPRESENTATIVE FIGURE FOR UTILITY LOCATIONS.

Figure 2
Project Site Plan and Utilities
SFO Plot 700 Development
May 2014

APPENDIX A

EXPLORATORY BORING LOGS

ESA

Exploratory Boring Log

Project/Task #: D120832 Logged by: M.Burns, PG			BOREHOLE ID: B-1
Methods/Equipment: 2-inch dia.Direct Push w/acetate tubes	Date: 19-May-2014 Start Time: 830 End Time:	Location/Coordinates: SW corner North Field Road & North Access Road	Elevation: about 12 msl

Depth (ft)	Spl	Soil Description	Notes
		ASPHALT and Baserock	
1		FILL: dark olive gray (5Y,3/2) to dark gray (5Y,4/1) clayey silty sand (SM); fine to coarse sand; trace angular fine gravel, loose to medium dense, dry to damp, no odor	
2			
3		FILL: light yellowish brown (2.5Y,6/3) to olive gray (5Y,4/2), silty, gravelly clay (CL), fine sand to fine gravel, rounded, firm, damp	
4			
5			
6		@6-1/2 ft: silty clay, Bay Mud odor	
7			
8			
9			
10		BAY MUD CLAY (CH): black (5Y, 2.5/1) to very dark gray (5Y,3/1), plastic, organics, sandy, silty, firm, moist to wet	
11			
12			
13			
14			
15			
		Total depth drilled = 15 feet	
16			
17			
18			
19			
20			

Remarks/Notes: All borings hand augered to 4 feet as per utility requirements

ESA

Exploratory Boring Log

Project/Task #: D120832 Logged by: M.Burns, PG			BOREHOLE ID: B-2
Methods/Equipment: 2-inch dia.Direct Push w/acetate tubes	Date: 19-May-2014 Start Time: 930 End Time:	Location/Coordinates: SW corner North Field Road & North Access Road	Elevation: about 12 msl

Depth (ft)	Spl	Soil Description	Notes
		ASPHALT and Baserock	
1		FILL: dark olive gray (5Y,3/2) to dark gray (5Y,4/1) clayey silty sand (SM); fine to coarse sand; trace angular fine gravel, loose to medium dense, dry to damp, no odor	
2		@2 ft: very silty grading to mixed with Bay Mud, organics, shell fragments	
3			
4			
5			
6			
7		BAY MUD CLAY (CH): black (5Y, 2.5/1) to very dark gray (5Y,3/1), plastic, organics, sandy, silty, firm, moist to wet	
8			
9			
10			
11			
12			
13			
14			
15			
		Total depth drilled = 15 feet	
16			
17			
18			
19			
20			

Remarks/Notes: All borings hand augered to 4 feet as per utility requirements

ESA

Exploratory Boring Log

Project/Task #: D120832 Logged by: M.Burns, PG			BOREHOLE ID: B-3
Methods/Equipment: 2-inch dia.Direct Push w/acetate tubes	Date: 19-May-2014 Start Time: 1100 End Time:	Location/Coordinates: SW corner North Field Road & North Access Road	Elevation: about 12 msl

Depth (ft)	Spl	Soil Description	Notes
		ASPHALT and Baserock	
1		FILL: dark olive gray (5Y,3/2) to dark gray (5Y,4/1) clayey silty sand (SM); fine to coarse sand; trace angular fine gravel, loose, dry to damp, no odor	
2			
3		@2-1/2 ft: clayey sand (SC) fill, light yellowish brown (2.5Y, 5/3) to olive brown (2.5Y4/3), fine to medium sand; clayey, silty, medium dense, damp	
4		@3-1/2 ft: chaotic colors, mixed clayey sand with Bay Mud chunks	
5			
6			
7			
8		BAY MUD CLAY (CH): black (5Y, 2.5/1) to very dark gray (5Y,3/1), plastic, organics, sandy, silty, firm, moist	
9			
10		@10 ft: wet	
11			
12			
13			
14			
15			
		Total depth drilled = 15 feet	
16			
17			
18			
19			
20			

Remarks/Notes: All borings hand augered to 4 feet as per utility requirements

ESA

Exploratory Boring Log

Project/Task #: D120832 Logged by: M.Burns, PG		BOREHOLE ID: B-4
Methods/Equipment: 2-inch dia.Direct Push w/acetate tubes	Date: 19-May-2014 Start Time: 1330 End Time:	Location/Coordinates: SW corner North Field Road & North Access Road Elevation: about 12 msl

Depth (ft)	Spl	Soil Description	Notes
		ASPHALT and Baserock	
1		FILL: light yellowish brown (2.5Y,6/4) to dark gray (5Y,4/1) silty sand (SM); fine to coarse sand; trace fine gravel, loose, dry to damp, no odor @1ft: Bay Mud chunks @1-1/2 ft: sandy Bay Mud (CH), trace gravel, organics, plastic, damp @2 ft: sandy pockets, deceasing sand, angular fine gravel @3 ft: silty sandy clay to clayey silty sand (SM-CL), dark gray (5Y,4/1) to olive gray (5Y,4/2), Bay Mud odor @4 ft: fine sand, trace medium sand to fine gravel	
6		SILTY SAND (SM), very dark gray (5Y,3/1), fine to medium sand, trace coarse sand & shell fragments, clayey, medium dense, moist to wet, Bay Mud smell @8 ft: increasing clay with depth, wet	
12		BAY MUD CLAY (CH): black (5Y, 2.5/1) to very dark gray (5Y,3/1), plastic, organics, strong Bay Mud smell, silty occasional shell fragments, soft to firm, moist to wet	
15		Total depth drilled = 15 feet	
16			
17			
18			
19			
20			

Remarks/Notes: All borings hand augered to 4 feet as per utility requirements

ESA

Exploratory Boring Log

Project/Task #: D120832 Logged by: M.Burns, PG		BOREHOLE ID: B-5
Methods/Equipment: 2-inch dia.Direct Push w/acetate tubes	Date: 19-May-2014 Start Time: 1430 End Time:	Location/Coordinates: SW corner North Field Road & North Access Road Elevation: about 12 msl

Depth (ft)	Spl	Soil Description	Notes
		ASPHALT and Baserock	
1		FILL; olive gray (5Y, 4/2); clayey silty sand (SM); fine to coarse sand; loose; dry to damp; no odor	
2		@1ft: olive brown (2.5Y,4/4), 5-10% coarse sand to fine gravel, loose to medium dense, damp	
3		@2 ft: dark olive gray (5Y,3/2), 20-30% coarse sand to fine gravel, bay mud odor	
4		@3 ft: dark gray (5Y,4/1), some clay, medium dense, damp	
5		@5 ft: mottled olive (5Y,5/3) to very dark gray (5Y,3/1), fine to medium sand, no coarse sand or gravel, increasing clay	
6			
7			
8		@8 ft: increasing Bay Mud w/strong Bay Mud odor	
9		BAY MUD CLAY (CH): black (5Y, 2.5/1) to very dark gray (5Y,3/1), plastic, organics, strong Bay Mud smell, silty and sandy; occasional shell fragments, soft to firm, moist to wet @ 9 ft	
10			
11			
12			
13		@13 ft: less sand	
14			
15			
		Total depth drilled = 15 feet	
16			
17			
18			
19			
20			

Remarks/Notes: All borings hand augered to 4 feet as per utility requirements

ESA

Exploratory Boring Log

Project/Task #: D120832 Logged by: M.Burns, PG			BOREHOLE ID: B-6
Methods/Equipment: 2-inch dia.Direct Push w/acetate tubes	Date: 19-May-2014 Start Time: 1530 End Time:	Location/Coordinates: SW corner North Field Road & North Access Road	Elevation: about 12 msl

Depth (ft)	Spl	Soil Description	Notes
		ASPHALT and Baserock	
1		FILL: mottled dark olive gray (5Y, 3/2), clayey silty sand to sandy silty clay (SM-SC), fine to coarse sand, occasional fine gravel, loose, dry to damp, no odor	
2		@1ft: chunks of Bay Mud with peat	
3		FILL: mottled olive gray (5Y, 4/2) to dark yellowish brown (10YR, 4/4) clayey silty sand (SM), fine to medium grained, occasional coarse sand to fine gravel, medium dense, damp, trace shell fragments	
4		@4 ft: gasoline odor; very dark gray (5Y,3/1) to dak gray (2.5Y, 4.0)	
5		@5 ft: gasoline odor	
6			
7		@ 7 ft: faint gasoline odor	
8		@8 ft: increasing Bay Mud w/strong Bay Mud odor	
9		mottled olive (5Y,4/3) to very dark gray (2.5Y, 3/0)	
10		@9 ft: wet	
11		BAY MUD CLAY (CH): black (5Y, 2.5/1), plastic, organics, soft, moist to wet, strong Bay Mud smell, occasional shell fragments	
12			
13			
14			
15			
16		Total depth drilled = 15 feet	
17			
18			
19			
20			

Remarks/Notes: All borings hand augered to 4 feet as per utility requirements

APPENDIX B

LABORTATORY ANALYTICAL REPORT

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1405744 **Amended:** 05/30/2014

Report Created for: ESA
1425 N. McDowell Blvd. Ste.200
Petaluma, CA 94954

Project Contact: Michael G. Burns
Project P.O.:
Project Name: #120832-4E; SFO Plot 700

Project Received: 05/19/2014

Analytical Report reviewed & approved for release on 05/29/2014 by:

Question about your data?

Click here to email McCampbell

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

ACCREDITED IN ACCORDANCE WITH nelac

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: ESA
Project: #120832-4E; SFO Plot 700
WorkOrder: 1405744

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not detected at or above the indicated MDL or RL
NR	Matrix interferences, or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix; or sample diluted due to high matrix or analyte content.
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
TEQ	Toxicity Equivalence

Analytical Qualifiers

B	analyte detected in the associated Method Blank
H	samples were analyzed out of holding time
a1	sample diluted due to matrix interference
b1	aqueous sample that contains greater than ~1 vol. % sediment
c8	sample pH is greater than 2
d7	strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
e2	diesel range compounds are significant; no recognizable pattern
e7	oil range compounds are significant
e11	stoddard solvent/mineral spirit (?)

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD was out of acceptance criteria; LCS validated the prep batch.

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1-1	1405744-001A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 04:14
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 04:14
Benzene	ND	0.0050	1	05/23/2014 04:14
Bromobenzene	ND	0.0050	1	05/23/2014 04:14
Bromochloromethane	ND	0.0050	1	05/23/2014 04:14
Bromodichloromethane	ND	0.0050	1	05/23/2014 04:14
Bromoform	ND	0.0050	1	05/23/2014 04:14
Bromomethane	ND	0.0050	1	05/23/2014 04:14
2-Butanone (MEK)	ND	0.020	1	05/23/2014 04:14
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 04:14
n-Butyl benzene	ND	0.0050	1	05/23/2014 04:14
sec-Butyl benzene	ND	0.0050	1	05/23/2014 04:14
tert-Butyl benzene	ND	0.0050	1	05/23/2014 04:14
Carbon Disulfide	ND	0.0050	1	05/23/2014 04:14
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 04:14
Chlorobenzene	ND	0.0050	1	05/23/2014 04:14
Chloroethane	ND	0.0050	1	05/23/2014 04:14
Chloroform	ND	0.0050	1	05/23/2014 04:14
Chloromethane	ND	0.0050	1	05/23/2014 04:14
2-Chlorotoluene	ND	0.0050	1	05/23/2014 04:14
4-Chlorotoluene	ND	0.0050	1	05/23/2014 04:14
Dibromochloromethane	ND	0.0050	1	05/23/2014 04:14
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 04:14
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 04:14
Dibromomethane	ND	0.0050	1	05/23/2014 04:14
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 04:14
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 04:14
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 04:14
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 04:14
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 04:14
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 04:14
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 04:14
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 04:14
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 04:14
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 04:14
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 04:14
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 04:14
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 04:14

(Cont.)

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1-1	1405744-001A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 04:14
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 04:14
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 04:14
Ethylbenzene	ND	0.0050	1	05/23/2014 04:14
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 04:14
Freon 113	ND	0.10	1	05/23/2014 04:14
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 04:14
Hexachloroethane	ND	0.0050	1	05/23/2014 04:14
2-Hexanone	ND	0.0050	1	05/23/2014 04:14
Isopropylbenzene	ND	0.0050	1	05/23/2014 04:14
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 04:14
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 04:14
Methylene chloride	ND	0.0050	1	05/23/2014 04:14
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 04:14
Naphthalene	ND	0.0050	1	05/23/2014 04:14
n-Propyl benzene	ND	0.0050	1	05/23/2014 04:14
Styrene	ND	0.0050	1	05/23/2014 04:14
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 04:14
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 04:14
Tetrachloroethene	ND	0.0050	1	05/23/2014 04:14
Toluene	ND	0.0050	1	05/23/2014 04:14
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 04:14
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 04:14
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 04:14
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 04:14
Trichloroethene	ND	0.0050	1	05/23/2014 04:14
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 04:14
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 04:14
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 04:14
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 04:14
Vinyl Chloride	ND	0.0050	1	05/23/2014 04:14
Xylenes, Total	ND	0.0050	1	05/23/2014 04:14

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	70-130	05/23/2014 04:14
Toluene-d8	108	70-130	05/23/2014 04:14
4-BFB	93	70-130	05/23/2014 04:14

(Cont.)

CDPH ELAP 1644 ♦ NELAP 4033ORELAP KF Analyst's Initial Angela Rydelius, Lab Manager

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1-7	1405744-002A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 17:55
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 17:55
Benzene	ND	0.0050	1	05/23/2014 17:55
Bromobenzene	ND	0.0050	1	05/23/2014 17:55
Bromochloromethane	ND	0.0050	1	05/23/2014 17:55
Bromodichloromethane	ND	0.0050	1	05/23/2014 17:55
Bromoform	ND	0.0050	1	05/23/2014 17:55
Bromomethane	ND	0.0050	1	05/23/2014 17:55
2-Butanone (MEK)	ND	0.020	1	05/23/2014 17:55
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 17:55
n-Butyl benzene	ND	0.0050	1	05/23/2014 17:55
sec-Butyl benzene	ND	0.0050	1	05/23/2014 17:55
tert-Butyl benzene	ND	0.0050	1	05/23/2014 17:55
Carbon Disulfide	ND	0.0050	1	05/23/2014 17:55
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 17:55
Chlorobenzene	ND	0.0050	1	05/23/2014 17:55
Chloroethane	ND	0.0050	1	05/23/2014 17:55
Chloroform	ND	0.0050	1	05/23/2014 17:55
Chloromethane	ND	0.0050	1	05/23/2014 17:55
2-Chlorotoluene	ND	0.0050	1	05/23/2014 17:55
4-Chlorotoluene	ND	0.0050	1	05/23/2014 17:55
Dibromochloromethane	ND	0.0050	1	05/23/2014 17:55
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 17:55
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 17:55
Dibromomethane	ND	0.0050	1	05/23/2014 17:55
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 17:55
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 17:55
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 17:55
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 17:55
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 17:55
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 17:55
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 17:55
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 17:55
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 17:55
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 17:55
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 17:55
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 17:55
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 17:55

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Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1-7	1405744-002A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 17:55
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 17:55
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 17:55
Ethylbenzene	ND	0.0050	1	05/23/2014 17:55
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 17:55
Freon 113	ND	0.10	1	05/23/2014 17:55
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 17:55
Hexachloroethane	ND	0.0050	1	05/23/2014 17:55
2-Hexanone	ND	0.0050	1	05/23/2014 17:55
Isopropylbenzene	ND	0.0050	1	05/23/2014 17:55
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 17:55
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 17:55
Methylene chloride	ND	0.0050	1	05/23/2014 17:55
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 17:55
Naphthalene	ND	0.0050	1	05/23/2014 17:55
n-Propyl benzene	ND	0.0050	1	05/23/2014 17:55
Styrene	ND	0.0050	1	05/23/2014 17:55
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 17:55
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 17:55
Tetrachloroethene	ND	0.0050	1	05/23/2014 17:55
Toluene	ND	0.0050	1	05/23/2014 17:55
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 17:55
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 17:55
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 17:55
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 17:55
Trichloroethene	ND	0.0050	1	05/23/2014 17:55
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 17:55
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 17:55
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 17:55
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 17:55
Vinyl Chloride	ND	0.0050	1	05/23/2014 17:55
Xylenes, Total	ND	0.0050	1	05/23/2014 17:55

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	70-130	05/23/2014 17:55
Toluene-d8	112	70-130	05/23/2014 17:55
4-BFB	99	70-130	05/23/2014 17:55

(Cont.)

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Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2-2	1405744-003A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 04:55
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 04:55
Benzene	ND	0.0050	1	05/23/2014 04:55
Bromobenzene	ND	0.0050	1	05/23/2014 04:55
Bromochloromethane	ND	0.0050	1	05/23/2014 04:55
Bromodichloromethane	ND	0.0050	1	05/23/2014 04:55
Bromoform	ND	0.0050	1	05/23/2014 04:55
Bromomethane	ND	0.0050	1	05/23/2014 04:55
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n-Butyl benzene	ND	0.0050	1	05/23/2014 04:55
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tert-Butyl benzene	ND	0.0050	1	05/23/2014 04:55
Carbon Disulfide	ND	0.0050	1	05/23/2014 04:55
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 04:55
Chlorobenzene	ND	0.0050	1	05/23/2014 04:55
Chloroethane	ND	0.0050	1	05/23/2014 04:55
Chloroform	ND	0.0050	1	05/23/2014 04:55
Chloromethane	ND	0.0050	1	05/23/2014 04:55
2-Chlorotoluene	ND	0.0050	1	05/23/2014 04:55
4-Chlorotoluene	ND	0.0050	1	05/23/2014 04:55
Dibromochloromethane	ND	0.0050	1	05/23/2014 04:55
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 04:55
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 04:55
Dibromomethane	ND	0.0050	1	05/23/2014 04:55
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 04:55
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 04:55
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 04:55
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 04:55
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 04:55
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 04:55
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 04:55
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 04:55
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 04:55
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 04:55
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 04:55
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 04:55
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 04:55

(Cont.)

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2-2	1405744-003A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 04:55
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 04:55
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 04:55
Ethylbenzene	ND	0.0050	1	05/23/2014 04:55
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 04:55
Freon 113	ND	0.10	1	05/23/2014 04:55
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 04:55
Hexachloroethane	ND	0.0050	1	05/23/2014 04:55
2-Hexanone	ND	0.0050	1	05/23/2014 04:55
Isopropylbenzene	ND	0.0050	1	05/23/2014 04:55
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 04:55
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 04:55
Methylene chloride	ND	0.0050	1	05/23/2014 04:55
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 04:55
Naphthalene	ND	0.0050	1	05/23/2014 04:55
n-Propyl benzene	ND	0.0050	1	05/23/2014 04:55
Styrene	ND	0.0050	1	05/23/2014 04:55
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 04:55
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 04:55
Tetrachloroethene	ND	0.0050	1	05/23/2014 04:55
Toluene	ND	0.0050	1	05/23/2014 04:55
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 04:55
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 04:55
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 04:55
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 04:55
Trichloroethene	ND	0.0050	1	05/23/2014 04:55
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 04:55
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 04:55
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 04:55
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 04:55
Vinyl Chloride	ND	0.0050	1	05/23/2014 04:55
Xylenes, Total	ND	0.0050	1	05/23/2014 04:55
Surrogates	REC (%)	Limits		
Dibromofluoromethane	108	70-130		05/23/2014 04:55
Toluene-d8	108	70-130		05/23/2014 04:55
4-BFB	91	70-130		05/23/2014 04:55

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2-7	1405744-004A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 05:37
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 05:37
Benzene	ND	0.0050	1	05/23/2014 05:37
Bromobenzene	ND	0.0050	1	05/23/2014 05:37
Bromochloromethane	ND	0.0050	1	05/23/2014 05:37
Bromodichloromethane	ND	0.0050	1	05/23/2014 05:37
Bromoform	ND	0.0050	1	05/23/2014 05:37
Bromomethane	ND	0.0050	1	05/23/2014 05:37
2-Butanone (MEK)	ND	0.020	1	05/23/2014 05:37
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 05:37
n-Butyl benzene	ND	0.0050	1	05/23/2014 05:37
sec-Butyl benzene	ND	0.0050	1	05/23/2014 05:37
tert-Butyl benzene	ND	0.0050	1	05/23/2014 05:37
Carbon Disulfide	ND	0.0050	1	05/23/2014 05:37
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 05:37
Chlorobenzene	ND	0.0050	1	05/23/2014 05:37
Chloroethane	ND	0.0050	1	05/23/2014 05:37
Chloroform	ND	0.0050	1	05/23/2014 05:37
Chloromethane	ND	0.0050	1	05/23/2014 05:37
2-Chlorotoluene	ND	0.0050	1	05/23/2014 05:37
4-Chlorotoluene	ND	0.0050	1	05/23/2014 05:37
Dibromochloromethane	ND	0.0050	1	05/23/2014 05:37
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 05:37
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 05:37
Dibromomethane	ND	0.0050	1	05/23/2014 05:37
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 05:37
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 05:37
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 05:37
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 05:37
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 05:37
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 05:37
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 05:37
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 05:37
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 05:37
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 05:37
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 05:37
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 05:37
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 05:37

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2-7	1405744-004A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 05:37
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 05:37
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 05:37
Ethylbenzene	ND	0.0050	1	05/23/2014 05:37
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 05:37
Freon 113	ND	0.10	1	05/23/2014 05:37
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 05:37
Hexachloroethane	ND	0.0050	1	05/23/2014 05:37
2-Hexanone	ND	0.0050	1	05/23/2014 05:37
Isopropylbenzene	ND	0.0050	1	05/23/2014 05:37
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 05:37
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 05:37
Methylene chloride	ND	0.0050	1	05/23/2014 05:37
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 05:37
Naphthalene	ND	0.0050	1	05/23/2014 05:37
n-Propyl benzene	ND	0.0050	1	05/23/2014 05:37
Styrene	ND	0.0050	1	05/23/2014 05:37
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 05:37
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 05:37
Tetrachloroethene	ND	0.0050	1	05/23/2014 05:37
Toluene	ND	0.0050	1	05/23/2014 05:37
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 05:37
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 05:37
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 05:37
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 05:37
Trichloroethene	ND	0.0050	1	05/23/2014 05:37
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 05:37
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 05:37
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 05:37
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 05:37
Vinyl Chloride	ND	0.0050	1	05/23/2014 05:37
Xylenes, Total	ND	0.0050	1	05/23/2014 05:37

Surrogates	REC (%)	Limits	
Dibromofluoromethane	108	70-130	05/23/2014 05:37
Toluene-d8	109	70-130	05/23/2014 05:37
4-BFB	91	70-130	05/23/2014 05:37

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CDPH ELAP 1644 ♦ NELAP 4033ORELAP KF Analyst's Initial Angela Rydelius, Lab Manager

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3-2.5	1405744-005A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 15:07
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 15:07
Benzene	ND	0.0050	1	05/23/2014 15:07
Bromobenzene	ND	0.0050	1	05/23/2014 15:07
Bromochloromethane	ND	0.0050	1	05/23/2014 15:07
Bromodichloromethane	ND	0.0050	1	05/23/2014 15:07
Bromoform	ND	0.0050	1	05/23/2014 15:07
Bromomethane	ND	0.0050	1	05/23/2014 15:07
2-Butanone (MEK)	ND	0.020	1	05/23/2014 15:07
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 15:07
n-Butyl benzene	ND	0.0050	1	05/23/2014 15:07
sec-Butyl benzene	ND	0.0050	1	05/23/2014 15:07
tert-Butyl benzene	ND	0.0050	1	05/23/2014 15:07
Carbon Disulfide	ND	0.0050	1	05/23/2014 15:07
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 15:07
Chlorobenzene	ND	0.0050	1	05/23/2014 15:07
Chloroethane	ND	0.0050	1	05/23/2014 15:07
Chloroform	ND	0.0050	1	05/23/2014 15:07
Chloromethane	ND	0.0050	1	05/23/2014 15:07
2-Chlorotoluene	ND	0.0050	1	05/23/2014 15:07
4-Chlorotoluene	ND	0.0050	1	05/23/2014 15:07
Dibromochloromethane	ND	0.0050	1	05/23/2014 15:07
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 15:07
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 15:07
Dibromomethane	ND	0.0050	1	05/23/2014 15:07
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 15:07
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 15:07
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 15:07
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 15:07
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 15:07
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 15:07
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 15:07
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 15:07
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 15:07
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 15:07
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 15:07
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 15:07
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 15:07

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3-2.5	1405744-005A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 15:07
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 15:07
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 15:07
Ethylbenzene	ND	0.0050	1	05/23/2014 15:07
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 15:07
Freon 113	ND	0.10	1	05/23/2014 15:07
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 15:07
Hexachloroethane	ND	0.0050	1	05/23/2014 15:07
2-Hexanone	ND	0.0050	1	05/23/2014 15:07
Isopropylbenzene	ND	0.0050	1	05/23/2014 15:07
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 15:07
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 15:07
Methylene chloride	ND	0.0050	1	05/23/2014 15:07
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 15:07
Naphthalene	ND	0.0050	1	05/23/2014 15:07
n-Propyl benzene	ND	0.0050	1	05/23/2014 15:07
Styrene	ND	0.0050	1	05/23/2014 15:07
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 15:07
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 15:07
Tetrachloroethene	ND	0.0050	1	05/23/2014 15:07
Toluene	ND	0.0050	1	05/23/2014 15:07
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 15:07
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 15:07
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 15:07
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 15:07
Trichloroethene	ND	0.0050	1	05/23/2014 15:07
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 15:07
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 15:07
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 15:07
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 15:07
Vinyl Chloride	ND	0.0050	1	05/23/2014 15:07
Xylenes, Total	ND	0.0050	1	05/23/2014 15:07

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	70-130	05/23/2014 15:07
Toluene-d8	108	70-130	05/23/2014 15:07
4-BFB	94	70-130	05/23/2014 15:07

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3-10	1405744-006A	Soil	05/19/2014	GC16	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 05:30
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 05:30
Benzene	ND	0.0050	1	05/23/2014 05:30
Bromobenzene	ND	0.0050	1	05/23/2014 05:30
Bromochloromethane	ND	0.0050	1	05/23/2014 05:30
Bromodichloromethane	ND	0.0050	1	05/23/2014 05:30
Bromoform	ND	0.0050	1	05/23/2014 05:30
Bromomethane	ND	0.0050	1	05/23/2014 05:30
2-Butanone (MEK)	ND	0.020	1	05/23/2014 05:30
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 05:30
n-Butyl benzene	ND	0.0050	1	05/23/2014 05:30
sec-Butyl benzene	ND	0.0050	1	05/23/2014 05:30
tert-Butyl benzene	ND	0.0050	1	05/23/2014 05:30
Carbon Disulfide	ND	0.0050	1	05/23/2014 05:30
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 05:30
Chlorobenzene	ND	0.0050	1	05/23/2014 05:30
Chloroethane	ND	0.0050	1	05/23/2014 05:30
Chloroform	ND	0.0050	1	05/23/2014 05:30
Chloromethane	ND	0.0050	1	05/23/2014 05:30
2-Chlorotoluene	ND	0.0050	1	05/23/2014 05:30
4-Chlorotoluene	ND	0.0050	1	05/23/2014 05:30
Dibromochloromethane	ND	0.0050	1	05/23/2014 05:30
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 05:30
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 05:30
Dibromomethane	ND	0.0050	1	05/23/2014 05:30
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 05:30
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 05:30
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 05:30
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 05:30
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 05:30
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 05:30
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 05:30
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 05:30
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 05:30
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 05:30
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 05:30
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 05:30
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 05:30

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3-10	1405744-006A	Soil	05/19/2014	GC16	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 05:30
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 05:30
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 05:30
Ethylbenzene	ND	0.0050	1	05/23/2014 05:30
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 05:30
Freon 113	ND	0.10	1	05/23/2014 05:30
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 05:30
Hexachloroethane	ND	0.0050	1	05/23/2014 05:30
2-Hexanone	ND	0.0050	1	05/23/2014 05:30
Isopropylbenzene	ND	0.0050	1	05/23/2014 05:30
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 05:30
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 05:30
Methylene chloride	ND	0.0050	1	05/23/2014 05:30
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 05:30
Naphthalene	ND	0.0050	1	05/23/2014 05:30
n-Propyl benzene	ND	0.0050	1	05/23/2014 05:30
Styrene	ND	0.0050	1	05/23/2014 05:30
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 05:30
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 05:30
Tetrachloroethene	ND	0.0050	1	05/23/2014 05:30
Toluene	ND	0.0050	1	05/23/2014 05:30
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 05:30
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 05:30
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 05:30
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 05:30
Trichloroethene	ND	0.0050	1	05/23/2014 05:30
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 05:30
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 05:30
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 05:30
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 05:30
Vinyl Chloride	ND	0.0050	1	05/23/2014 05:30
Xylenes, Total	ND	0.0050	1	05/23/2014 05:30

Surrogates	REC (%)	Limits	
Dibromofluoromethane	103	70-130	05/23/2014 05:30
Toluene-d8	102	70-130	05/23/2014 05:30
4-BFB	119	70-130	05/23/2014 05:30

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4-2	1405744-007A	Soil	05/19/2014	GC16	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 06:13
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 06:13
Benzene	ND	0.0050	1	05/23/2014 06:13
Bromobenzene	ND	0.0050	1	05/23/2014 06:13
Bromochloromethane	ND	0.0050	1	05/23/2014 06:13
Bromodichloromethane	ND	0.0050	1	05/23/2014 06:13
Bromoform	ND	0.0050	1	05/23/2014 06:13
Bromomethane	ND	0.0050	1	05/23/2014 06:13
2-Butanone (MEK)	ND	0.020	1	05/23/2014 06:13
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 06:13
n-Butyl benzene	ND	0.0050	1	05/23/2014 06:13
sec-Butyl benzene	ND	0.0050	1	05/23/2014 06:13
tert-Butyl benzene	ND	0.0050	1	05/23/2014 06:13
Carbon Disulfide	ND	0.0050	1	05/23/2014 06:13
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 06:13
Chlorobenzene	ND	0.0050	1	05/23/2014 06:13
Chloroethane	ND	0.0050	1	05/23/2014 06:13
Chloroform	ND	0.0050	1	05/23/2014 06:13
Chloromethane	ND	0.0050	1	05/23/2014 06:13
2-Chlorotoluene	ND	0.0050	1	05/23/2014 06:13
4-Chlorotoluene	ND	0.0050	1	05/23/2014 06:13
Dibromochloromethane	ND	0.0050	1	05/23/2014 06:13
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 06:13
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 06:13
Dibromomethane	ND	0.0050	1	05/23/2014 06:13
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 06:13
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 06:13
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 06:13
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 06:13
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 06:13
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 06:13
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 06:13
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 06:13
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 06:13
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 06:13
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 06:13
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 06:13
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 06:13

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4-2	1405744-007A	Soil	05/19/2014	GC16	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 06:13
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 06:13
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 06:13
Ethylbenzene	ND	0.0050	1	05/23/2014 06:13
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 06:13
Freon 113	ND	0.10	1	05/23/2014 06:13
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 06:13
Hexachloroethane	ND	0.0050	1	05/23/2014 06:13
2-Hexanone	ND	0.0050	1	05/23/2014 06:13
Isopropylbenzene	ND	0.0050	1	05/23/2014 06:13
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 06:13
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 06:13
Methylene chloride	ND	0.0050	1	05/23/2014 06:13
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 06:13
Naphthalene	ND	0.0050	1	05/23/2014 06:13
n-Propyl benzene	ND	0.0050	1	05/23/2014 06:13
Styrene	ND	0.0050	1	05/23/2014 06:13
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 06:13
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 06:13
Tetrachloroethene	ND	0.0050	1	05/23/2014 06:13
Toluene	ND	0.0050	1	05/23/2014 06:13
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 06:13
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 06:13
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 06:13
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 06:13
Trichloroethene	ND	0.0050	1	05/23/2014 06:13
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 06:13
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 06:13
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 06:13
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 06:13
Vinyl Chloride	ND	0.0050	1	05/23/2014 06:13
Xylenes, Total	ND	0.0050	1	05/23/2014 06:13
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	104	70-130		05/23/2014 06:13
Toluene-d8	104	70-130		05/23/2014 06:13
4-BFB	122	70-130		05/23/2014 06:13

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4-4	1405744-008A	Soil	05/19/2014	GC16	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 06:56
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 06:56
Benzene	ND	0.0050	1	05/23/2014 06:56
Bromobenzene	ND	0.0050	1	05/23/2014 06:56
Bromochloromethane	ND	0.0050	1	05/23/2014 06:56
Bromodichloromethane	ND	0.0050	1	05/23/2014 06:56
Bromoform	ND	0.0050	1	05/23/2014 06:56
Bromomethane	ND	0.0050	1	05/23/2014 06:56
2-Butanone (MEK)	ND	0.020	1	05/23/2014 06:56
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 06:56
n-Butyl benzene	ND	0.0050	1	05/23/2014 06:56
sec-Butyl benzene	ND	0.0050	1	05/23/2014 06:56
tert-Butyl benzene	ND	0.0050	1	05/23/2014 06:56
Carbon Disulfide	ND	0.0050	1	05/23/2014 06:56
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 06:56
Chlorobenzene	ND	0.0050	1	05/23/2014 06:56
Chloroethane	ND	0.0050	1	05/23/2014 06:56
Chloroform	ND	0.0050	1	05/23/2014 06:56
Chloromethane	ND	0.0050	1	05/23/2014 06:56
2-Chlorotoluene	ND	0.0050	1	05/23/2014 06:56
4-Chlorotoluene	ND	0.0050	1	05/23/2014 06:56
Dibromochloromethane	ND	0.0050	1	05/23/2014 06:56
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 06:56
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 06:56
Dibromomethane	ND	0.0050	1	05/23/2014 06:56
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 06:56
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 06:56
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 06:56
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 06:56
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 06:56
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 06:56
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 06:56
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 06:56
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 06:56
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 06:56
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 06:56
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 06:56
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 06:56

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4-4	1405744-008A	Soil	05/19/2014	GC16	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 06:56
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 06:56
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 06:56
Ethylbenzene	ND	0.0050	1	05/23/2014 06:56
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 06:56
Freon 113	ND	0.10	1	05/23/2014 06:56
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 06:56
Hexachloroethane	ND	0.0050	1	05/23/2014 06:56
2-Hexanone	ND	0.0050	1	05/23/2014 06:56
Isopropylbenzene	ND	0.0050	1	05/23/2014 06:56
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 06:56
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 06:56
Methylene chloride	ND	0.0050	1	05/23/2014 06:56
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 06:56
Naphthalene	ND	0.0050	1	05/23/2014 06:56
n-Propyl benzene	ND	0.0050	1	05/23/2014 06:56
Styrene	ND	0.0050	1	05/23/2014 06:56
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 06:56
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 06:56
Tetrachloroethene	ND	0.0050	1	05/23/2014 06:56
Toluene	ND	0.0050	1	05/23/2014 06:56
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 06:56
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 06:56
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 06:56
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 06:56
Trichloroethene	ND	0.0050	1	05/23/2014 06:56
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 06:56
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 06:56
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 06:56
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 06:56
Vinyl Chloride	ND	0.0050	1	05/23/2014 06:56
Xylenes, Total	ND	0.0050	1	05/23/2014 06:56

Surrogates	REC (%)	Limits	
Dibromofluoromethane	104	70-130	05/23/2014 06:56
Toluene-d8	102	70-130	05/23/2014 06:56
4-BFB	124	70-130	05/23/2014 06:56

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5-2	1405744-009A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 15:49
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 15:49
Benzene	ND	0.0050	1	05/23/2014 15:49
Bromobenzene	ND	0.0050	1	05/23/2014 15:49
Bromochloromethane	ND	0.0050	1	05/23/2014 15:49
Bromodichloromethane	ND	0.0050	1	05/23/2014 15:49
Bromoform	ND	0.0050	1	05/23/2014 15:49
Bromomethane	ND	0.0050	1	05/23/2014 15:49
2-Butanone (MEK)	ND	0.020	1	05/23/2014 15:49
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 15:49
n-Butyl benzene	ND	0.0050	1	05/23/2014 15:49
sec-Butyl benzene	ND	0.0050	1	05/23/2014 15:49
tert-Butyl benzene	ND	0.0050	1	05/23/2014 15:49
Carbon Disulfide	ND	0.0050	1	05/23/2014 15:49
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 15:49
Chlorobenzene	ND	0.0050	1	05/23/2014 15:49
Chloroethane	ND	0.0050	1	05/23/2014 15:49
Chloroform	ND	0.0050	1	05/23/2014 15:49
Chloromethane	ND	0.0050	1	05/23/2014 15:49
2-Chlorotoluene	ND	0.0050	1	05/23/2014 15:49
4-Chlorotoluene	ND	0.0050	1	05/23/2014 15:49
Dibromochloromethane	ND	0.0050	1	05/23/2014 15:49
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 15:49
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 15:49
Dibromomethane	ND	0.0050	1	05/23/2014 15:49
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 15:49
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 15:49
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 15:49
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 15:49
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 15:49
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 15:49
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 15:49
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 15:49
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 15:49
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 15:49
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 15:49
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 15:49
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 15:49

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5-2	1405744-009A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 15:49
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 15:49
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 15:49
Ethylbenzene	ND	0.0050	1	05/23/2014 15:49
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 15:49
Freon 113	ND	0.10	1	05/23/2014 15:49
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 15:49
Hexachloroethane	ND	0.0050	1	05/23/2014 15:49
2-Hexanone	ND	0.0050	1	05/23/2014 15:49
Isopropylbenzene	ND	0.0050	1	05/23/2014 15:49
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 15:49
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 15:49
Methylene chloride	ND	0.0050	1	05/23/2014 15:49
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 15:49
Naphthalene	ND	0.0050	1	05/23/2014 15:49
n-Propyl benzene	ND	0.0050	1	05/23/2014 15:49
Styrene	ND	0.0050	1	05/23/2014 15:49
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 15:49
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 15:49
Tetrachloroethene	ND	0.0050	1	05/23/2014 15:49
Toluene	ND	0.0050	1	05/23/2014 15:49
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 15:49
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 15:49
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 15:49
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 15:49
Trichloroethene	ND	0.0050	1	05/23/2014 15:49
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 15:49
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 15:49
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 15:49
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 15:49
Vinyl Chloride	ND	0.0050	1	05/23/2014 15:49
Xylenes, Total	ND	0.0050	1	05/23/2014 15:49

Surrogates	REC (%)	Limits	
Dibromofluoromethane	107	70-130	05/23/2014 15:49
Toluene-d8	109	70-130	05/23/2014 15:49
4-BFB	93	70-130	05/23/2014 15:49

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5-3.5	1405744-010A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 16:31
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 16:31
Benzene	ND	0.0050	1	05/23/2014 16:31
Bromobenzene	ND	0.0050	1	05/23/2014 16:31
Bromochloromethane	ND	0.0050	1	05/23/2014 16:31
Bromodichloromethane	ND	0.0050	1	05/23/2014 16:31
Bromoform	ND	0.0050	1	05/23/2014 16:31
Bromomethane	ND	0.0050	1	05/23/2014 16:31
2-Butanone (MEK)	ND	0.020	1	05/23/2014 16:31
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 16:31
n-Butyl benzene	ND	0.0050	1	05/23/2014 16:31
sec-Butyl benzene	ND	0.0050	1	05/23/2014 16:31
tert-Butyl benzene	ND	0.0050	1	05/23/2014 16:31
Carbon Disulfide	ND	0.0050	1	05/23/2014 16:31
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 16:31
Chlorobenzene	ND	0.0050	1	05/23/2014 16:31
Chloroethane	ND	0.0050	1	05/23/2014 16:31
Chloroform	ND	0.0050	1	05/23/2014 16:31
Chloromethane	ND	0.0050	1	05/23/2014 16:31
2-Chlorotoluene	ND	0.0050	1	05/23/2014 16:31
4-Chlorotoluene	ND	0.0050	1	05/23/2014 16:31
Dibromochloromethane	ND	0.0050	1	05/23/2014 16:31
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 16:31
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 16:31
Dibromomethane	ND	0.0050	1	05/23/2014 16:31
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 16:31
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 16:31
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 16:31
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 16:31
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 16:31
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 16:31
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 16:31
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 16:31
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 16:31
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 16:31
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 16:31
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 16:31
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 16:31

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5-3.5	1405744-010A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 16:31
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 16:31
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 16:31
Ethylbenzene	ND	0.0050	1	05/23/2014 16:31
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 16:31
Freon 113	ND	0.10	1	05/23/2014 16:31
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 16:31
Hexachloroethane	ND	0.0050	1	05/23/2014 16:31
2-Hexanone	ND	0.0050	1	05/23/2014 16:31
Isopropylbenzene	ND	0.0050	1	05/23/2014 16:31
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 16:31
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 16:31
Methylene chloride	ND	0.0050	1	05/23/2014 16:31
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 16:31
Naphthalene	ND	0.0050	1	05/23/2014 16:31
n-Propyl benzene	ND	0.0050	1	05/23/2014 16:31
Styrene	ND	0.0050	1	05/23/2014 16:31
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 16:31
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 16:31
Tetrachloroethene	ND	0.0050	1	05/23/2014 16:31
Toluene	ND	0.0050	1	05/23/2014 16:31
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 16:31
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 16:31
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 16:31
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 16:31
Trichloroethene	ND	0.0050	1	05/23/2014 16:31
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 16:31
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 16:31
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 16:31
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 16:31
Vinyl Chloride	ND	0.0050	1	05/23/2014 16:31
Xylenes, Total	ND	0.0050	1	05/23/2014 16:31
Surrogates	REC (%)	Limits		
Dibromofluoromethane	108	70-130		05/23/2014 16:31
Toluene-d8	110	70-130		05/23/2014 16:31
4-BFB	91	70-130		05/23/2014 16:31

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6-2	1405744-011A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 17:13
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 17:13
Benzene	ND	0.0050	1	05/23/2014 17:13
Bromobenzene	ND	0.0050	1	05/23/2014 17:13
Bromochloromethane	ND	0.0050	1	05/23/2014 17:13
Bromodichloromethane	ND	0.0050	1	05/23/2014 17:13
Bromoform	ND	0.0050	1	05/23/2014 17:13
Bromomethane	ND	0.0050	1	05/23/2014 17:13
2-Butanone (MEK)	ND	0.020	1	05/23/2014 17:13
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 17:13
n-Butyl benzene	ND	0.0050	1	05/23/2014 17:13
sec-Butyl benzene	ND	0.0050	1	05/23/2014 17:13
tert-Butyl benzene	ND	0.0050	1	05/23/2014 17:13
Carbon Disulfide	ND	0.0050	1	05/23/2014 17:13
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 17:13
Chlorobenzene	ND	0.0050	1	05/23/2014 17:13
Chloroethane	ND	0.0050	1	05/23/2014 17:13
Chloroform	ND	0.0050	1	05/23/2014 17:13
Chloromethane	ND	0.0050	1	05/23/2014 17:13
2-Chlorotoluene	ND	0.0050	1	05/23/2014 17:13
4-Chlorotoluene	ND	0.0050	1	05/23/2014 17:13
Dibromochloromethane	ND	0.0050	1	05/23/2014 17:13
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 17:13
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 17:13
Dibromomethane	ND	0.0050	1	05/23/2014 17:13
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 17:13
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 17:13
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 17:13
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 17:13
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 17:13
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 17:13
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 17:13
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 17:13
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 17:13
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 17:13
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 17:13
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 17:13
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 17:13

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6-2	1405744-011A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 17:13
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 17:13
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 17:13
Ethylbenzene	ND	0.0050	1	05/23/2014 17:13
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 17:13
Freon 113	ND	0.10	1	05/23/2014 17:13
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 17:13
Hexachloroethane	ND	0.0050	1	05/23/2014 17:13
2-Hexanone	ND	0.0050	1	05/23/2014 17:13
Isopropylbenzene	ND	0.0050	1	05/23/2014 17:13
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 17:13
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 17:13
Methylene chloride	ND	0.0050	1	05/23/2014 17:13
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 17:13
Naphthalene	ND	0.0050	1	05/23/2014 17:13
n-Propyl benzene	ND	0.0050	1	05/23/2014 17:13
Styrene	ND	0.0050	1	05/23/2014 17:13
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 17:13
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 17:13
Tetrachloroethene	ND	0.0050	1	05/23/2014 17:13
Toluene	ND	0.0050	1	05/23/2014 17:13
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 17:13
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 17:13
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 17:13
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 17:13
Trichloroethene	ND	0.0050	1	05/23/2014 17:13
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 17:13
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 17:13
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 17:13
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 17:13
Vinyl Chloride	ND	0.0050	1	05/23/2014 17:13
Xylenes, Total	ND	0.0050	1	05/23/2014 17:13
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	107	70-130		05/23/2014 17:13
Toluene-d8	107	70-130		05/23/2014 17:13
4-BFB	90	70-130		05/23/2014 17:13

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CDPH ELAP 1644 ♦ NELAP 4033ORELAP KF Analyst's Initial Angela Rydelius, Lab Manager

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6-4	1405744-012A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	05/23/2014 23:33
tert-Amyl methyl ether (TAME)	ND	0.0050	1	05/23/2014 23:33
Benzene	ND	0.0050	1	05/23/2014 23:33
Bromobenzene	ND	0.0050	1	05/23/2014 23:33
Bromochloromethane	ND	0.0050	1	05/23/2014 23:33
Bromodichloromethane	ND	0.0050	1	05/23/2014 23:33
Bromoform	ND	0.0050	1	05/23/2014 23:33
Bromomethane	ND	0.0050	1	05/23/2014 23:33
2-Butanone (MEK)	ND	0.020	1	05/23/2014 23:33
t-Butyl alcohol (TBA)	ND	0.050	1	05/23/2014 23:33
n-Butyl benzene	ND	0.0050	1	05/23/2014 23:33
sec-Butyl benzene	ND	0.0050	1	05/23/2014 23:33
tert-Butyl benzene	ND	0.0050	1	05/23/2014 23:33
Carbon Disulfide	ND	0.0050	1	05/23/2014 23:33
Carbon Tetrachloride	ND	0.0050	1	05/23/2014 23:33
Chlorobenzene	ND	0.0050	1	05/23/2014 23:33
Chloroethane	ND	0.0050	1	05/23/2014 23:33
Chloroform	ND	0.0050	1	05/23/2014 23:33
Chloromethane	ND	0.0050	1	05/23/2014 23:33
2-Chlorotoluene	ND	0.0050	1	05/23/2014 23:33
4-Chlorotoluene	ND	0.0050	1	05/23/2014 23:33
Dibromochloromethane	ND	0.0050	1	05/23/2014 23:33
1,2-Dibromo-3-chloropropane	ND	0.0040	1	05/23/2014 23:33
1,2-Dibromoethane (EDB)	ND	0.0040	1	05/23/2014 23:33
Dibromomethane	ND	0.0050	1	05/23/2014 23:33
1,2-Dichlorobenzene	ND	0.0050	1	05/23/2014 23:33
1,3-Dichlorobenzene	ND	0.0050	1	05/23/2014 23:33
1,4-Dichlorobenzene	ND	0.0050	1	05/23/2014 23:33
Dichlorodifluoromethane	ND	0.0050	1	05/23/2014 23:33
1,1-Dichloroethane	ND	0.0050	1	05/23/2014 23:33
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	1	05/23/2014 23:33
1,1-Dichloroethene	ND	0.0050	1	05/23/2014 23:33
cis-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 23:33
trans-1,2-Dichloroethene	ND	0.0050	1	05/23/2014 23:33
1,2-Dichloropropane	ND	0.0050	1	05/23/2014 23:33
1,3-Dichloropropane	ND	0.0050	1	05/23/2014 23:33
2,2-Dichloropropane	ND	0.0050	1	05/23/2014 23:33
1,1-Dichloropropene	ND	0.0050	1	05/23/2014 23:33

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/20/14	**Unit:**	mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6-4	1405744-012A	Soil	05/19/2014	GC10	90628

Analytes	Result	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 23:33
trans-1,3-Dichloropropene	ND	0.0050	1	05/23/2014 23:33
Diisopropyl ether (DIPE)	ND	0.0050	1	05/23/2014 23:33
Ethylbenzene	ND	0.0050	1	05/23/2014 23:33
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	05/23/2014 23:33
Freon 113	ND	0.10	1	05/23/2014 23:33
Hexachlorobutadiene	ND	0.0050	1	05/23/2014 23:33
Hexachloroethane	ND	0.0050	1	05/23/2014 23:33
2-Hexanone	ND	0.0050	1	05/23/2014 23:33
Isopropylbenzene	ND	0.0050	1	05/23/2014 23:33
4-Isopropyl toluene	ND	0.0050	1	05/23/2014 23:33
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	05/23/2014 23:33
Methylene chloride	ND	0.0050	1	05/23/2014 23:33
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	05/23/2014 23:33
Naphthalene	ND	0.0050	1	05/23/2014 23:33
n-Propyl benzene	ND	0.0050	1	05/23/2014 23:33
Styrene	ND	0.0050	1	05/23/2014 23:33
1,1,1,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 23:33
1,1,2,2-Tetrachloroethane	ND	0.0050	1	05/23/2014 23:33
Tetrachloroethene	ND	0.0050	1	05/23/2014 23:33
Toluene	ND	0.0050	1	05/23/2014 23:33
1,2,3-Trichlorobenzene	ND	0.0050	1	05/23/2014 23:33
1,2,4-Trichlorobenzene	ND	0.0050	1	05/23/2014 23:33
1,1,1-Trichloroethane	ND	0.0050	1	05/23/2014 23:33
1,1,2-Trichloroethane	ND	0.0050	1	05/23/2014 23:33
Trichloroethene	ND	0.0050	1	05/23/2014 23:33
Trichlorofluoromethane	ND	0.0050	1	05/23/2014 23:33
1,2,3-Trichloropropane	ND	0.0050	1	05/23/2014 23:33
1,2,4-Trimethylbenzene	ND	0.0050	1	05/23/2014 23:33
1,3,5-Trimethylbenzene	ND	0.0050	1	05/23/2014 23:33
Vinyl Chloride	ND	0.0050	1	05/23/2014 23:33
Xylenes, Total	ND	0.0050	1	05/23/2014 23:33

Surrogates	REC (%)	Limits	
Dibromofluoromethane	106	70-130	05/23/2014 23:33
Toluene-d8	111	70-130	05/23/2014 23:33
4-BFB	101	70-130	05/23/2014 23:33

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2	1405744-014A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	**23**		10	1	05/24/2014 01:22
tert-Amyl methyl ether (TAME)	ND		0.50	1	05/24/2014 01:22
Benzene	ND		0.50	1	05/24/2014 01:22
Bromobenzene	ND		0.50	1	05/24/2014 01:22
Bromochloromethane	ND		0.50	1	05/24/2014 01:22
Bromodichloromethane	ND		0.50	1	05/24/2014 01:22
Bromoform	ND		0.50	1	05/24/2014 01:22
Bromomethane	ND		0.50	1	05/24/2014 01:22
2-Butanone (MEK)	**2.3**		2.0	1	05/24/2014 01:22
t-Butyl alcohol (TBA)	ND	B	5.0	1	05/24/2014 01:22
n-Butyl benzene	ND		0.50	1	05/24/2014 01:22
sec-Butyl benzene	ND		0.50	1	05/24/2014 01:22
tert-Butyl benzene	ND		0.50	1	05/24/2014 01:22
Carbon Disulfide	ND		0.50	1	05/24/2014 01:22
Carbon Tetrachloride	ND		0.50	1	05/24/2014 01:22
Chlorobenzene	ND		0.50	1	05/24/2014 01:22
Chloroethane	ND		0.50	1	05/24/2014 01:22
Chloroform	ND		0.50	1	05/24/2014 01:22
Chloromethane	ND		0.50	1	05/24/2014 01:22
2-Chlorotoluene	ND		0.50	1	05/24/2014 01:22
4-Chlorotoluene	ND		0.50	1	05/24/2014 01:22
Dibromochloromethane	ND		0.50	1	05/24/2014 01:22
1,2-Dibromo-3-chloropropane	ND		0.20	1	05/24/2014 01:22
1,2-Dibromoethane (EDB)	ND		0.50	1	05/24/2014 01:22
Dibromomethane	ND		0.50	1	05/24/2014 01:22
1,2-Dichlorobenzene	ND		0.50	1	05/24/2014 01:22
1,3-Dichlorobenzene	ND		0.50	1	05/24/2014 01:22
1,4-Dichlorobenzene	ND		0.50	1	05/24/2014 01:22
Dichlorodifluoromethane	ND		0.50	1	05/24/2014 01:22
1,1-Dichloroethane	ND		0.50	1	05/24/2014 01:22
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	05/24/2014 01:22
1,1-Dichloroethene	ND		0.50	1	05/24/2014 01:22
cis-1,2-Dichloroethene	ND		0.50	1	05/24/2014 01:22
trans-1,2-Dichloroethene	ND		0.50	1	05/24/2014 01:22
1,2-Dichloropropane	ND		0.50	1	05/24/2014 01:22
1,3-Dichloropropane	ND		0.50	1	05/24/2014 01:22
2,2-Dichloropropane	ND		0.50	1	05/24/2014 01:22
1,1-Dichloropropene	ND		0.50	1	05/24/2014 01:22

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2	1405744-014A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND		0.50	1	05/24/2014 01:22
trans-1,3-Dichloropropene	ND		0.50	1	05/24/2014 01:22
Diisopropyl ether (DIPE)	ND		0.50	1	05/24/2014 01:22
Ethylbenzene	ND		0.50	1	05/24/2014 01:22
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	05/24/2014 01:22
Freon 113	ND		0.50	1	05/24/2014 01:22
Hexachlorobutadiene	ND		0.50	1	05/24/2014 01:22
Hexachloroethane	ND		0.50	1	05/24/2014 01:22
2-Hexanone	ND		0.50	1	05/24/2014 01:22
Isopropylbenzene	ND		0.50	1	05/24/2014 01:22
4-Isopropyl toluene	ND		0.50	1	05/24/2014 01:22
Methyl-t-butyl ether (MTBE)	ND		0.50	1	05/24/2014 01:22
Methylene chloride	ND		0.50	1	05/24/2014 01:22
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	05/24/2014 01:22
Naphthalene	ND		0.50	1	05/24/2014 01:22
n-Propyl benzene	ND		0.50	1	05/24/2014 01:22
Styrene	ND		0.50	1	05/24/2014 01:22
1,1,1,2-Tetrachloroethane	ND		0.50	1	05/24/2014 01:22
1,1,2,2-Tetrachloroethane	ND		0.50	1	05/24/2014 01:22
Tetrachloroethene	ND		0.50	1	05/24/2014 01:22
Toluene	ND		0.50	1	05/24/2014 01:22
1,2,3-Trichlorobenzene	ND		0.50	1	05/24/2014 01:22
1,2,4-Trichlorobenzene	ND		0.50	1	05/24/2014 01:22
1,1,1-Trichloroethane	ND		0.50	1	05/24/2014 01:22
1,1,2-Trichloroethane	ND		0.50	1	05/24/2014 01:22
Trichloroethene	ND		0.50	1	05/24/2014 01:22
Trichlorofluoromethane	ND		0.50	1	05/24/2014 01:22
1,2,3-Trichloropropane	ND		0.50	1	05/24/2014 01:22
1,2,4-Trimethylbenzene	ND		0.50	1	05/24/2014 01:22
1,3,5-Trimethylbenzene	ND		0.50	1	05/24/2014 01:22
Vinyl Chloride	ND		0.50	1	05/24/2014 01:22
Xylenes, Total	ND		0.50	1	05/24/2014 01:22

Surrogates	REC (%)	Limits	Analytical Comments: b1	
Dibromofluoromethane	110	70-130		05/24/2014 01:22
Toluene-d8	118	70-130		05/24/2014 01:22
4-BFB	104	70-130		05/24/2014 01:22

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3	1405744-015A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND		10	1	05/22/2014 13:58
tert-Amyl methyl ether (TAME)	ND		0.50	1	05/22/2014 13:58
Benzene	ND		0.50	1	05/22/2014 13:58
Bromobenzene	ND		0.50	1	05/22/2014 13:58
Bromochloromethane	ND		0.50	1	05/22/2014 13:58
Bromodichloromethane	ND		0.50	1	05/22/2014 13:58
Bromoform	ND		0.50	1	05/22/2014 13:58
Bromomethane	ND		0.50	1	05/22/2014 13:58
2-Butanone (MEK)	ND		2.0	1	05/22/2014 13:58
t-Butyl alcohol (TBA)	ND	B	5.0	1	05/22/2014 13:58
n-Butyl benzene	ND		0.50	1	05/22/2014 13:58
sec-Butyl benzene	ND		0.50	1	05/22/2014 13:58
tert-Butyl benzene	ND		0.50	1	05/22/2014 13:58
Carbon Disulfide	ND		0.50	1	05/22/2014 13:58
Carbon Tetrachloride	ND		0.50	1	05/22/2014 13:58
Chlorobenzene	ND		0.50	1	05/22/2014 13:58
Chloroethane	ND		0.50	1	05/22/2014 13:58
Chloroform	ND		0.50	1	05/22/2014 13:58
Chloromethane	ND		0.50	1	05/22/2014 13:58
2-Chlorotoluene	ND		0.50	1	05/22/2014 13:58
4-Chlorotoluene	ND		0.50	1	05/22/2014 13:58
Dibromochloromethane	ND		0.50	1	05/22/2014 13:58
1,2-Dibromo-3-chloropropane	ND		0.20	1	05/22/2014 13:58
1,2-Dibromoethane (EDB)	ND		0.50	1	05/22/2014 13:58
Dibromomethane	ND		0.50	1	05/22/2014 13:58
1,2-Dichlorobenzene	ND		0.50	1	05/22/2014 13:58
1,3-Dichlorobenzene	ND		0.50	1	05/22/2014 13:58
1,4-Dichlorobenzene	ND		0.50	1	05/22/2014 13:58
Dichlorodifluoromethane	ND		0.50	1	05/22/2014 13:58
1,1-Dichloroethane	ND		0.50	1	05/22/2014 13:58
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	05/22/2014 13:58
1,1-Dichloroethene	ND		0.50	1	05/22/2014 13:58
cis-1,2-Dichloroethene	ND		0.50	1	05/22/2014 13:58
trans-1,2-Dichloroethene	ND		0.50	1	05/22/2014 13:58
1,2-Dichloropropane	ND		0.50	1	05/22/2014 13:58
1,3-Dichloropropane	ND		0.50	1	05/22/2014 13:58
2,2-Dichloropropane	ND		0.50	1	05/22/2014 13:58
1,1-Dichloropropene	ND		0.50	1	05/22/2014 13:58

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3	1405744-015A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND		0.50	1	05/22/2014 13:58
trans-1,3-Dichloropropene	ND		0.50	1	05/22/2014 13:58
Diisopropyl ether (DIPE)	ND		0.50	1	05/22/2014 13:58
Ethylbenzene	ND		0.50	1	05/22/2014 13:58
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	05/22/2014 13:58
Freon 113	ND		0.50	1	05/22/2014 13:58
Hexachlorobutadiene	ND		0.50	1	05/22/2014 13:58
Hexachloroethane	ND		0.50	1	05/22/2014 13:58
2-Hexanone	ND		0.50	1	05/22/2014 13:58
Isopropylbenzene	ND		0.50	1	05/22/2014 13:58
4-Isopropyl toluene	ND		0.50	1	05/22/2014 13:58
Methyl-t-butyl ether (MTBE)	ND		0.50	1	05/22/2014 13:58
Methylene chloride	ND		0.50	1	05/22/2014 13:58
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	05/22/2014 13:58
Naphthalene	ND		0.50	1	05/22/2014 13:58
n-Propyl benzene	ND		0.50	1	05/22/2014 13:58
Styrene	ND		0.50	1	05/22/2014 13:58
1,1,1,2-Tetrachloroethane	ND		0.50	1	05/22/2014 13:58
1,1,2,2-Tetrachloroethane	ND		0.50	1	05/22/2014 13:58
Tetrachloroethene	ND		0.50	1	05/22/2014 13:58
Toluene	ND		0.50	1	05/22/2014 13:58
1,2,3-Trichlorobenzene	ND		0.50	1	05/22/2014 13:58
1,2,4-Trichlorobenzene	ND		0.50	1	05/22/2014 13:58
1,1,1-Trichloroethane	ND		0.50	1	05/22/2014 13:58
1,1,2-Trichloroethane	ND		0.50	1	05/22/2014 13:58
Trichloroethene	ND		0.50	1	05/22/2014 13:58
Trichlorofluoromethane	ND		0.50	1	05/22/2014 13:58
1,2,3-Trichloropropane	ND		0.50	1	05/22/2014 13:58
1,2,4-Trimethylbenzene	ND		0.50	1	05/22/2014 13:58
1,3,5-Trimethylbenzene	ND		0.50	1	05/22/2014 13:58
Vinyl Chloride	ND		0.50	1	05/22/2014 13:58
Xylenes, Total	ND		0.50	1	05/22/2014 13:58

Surrogates	REC (%)	Limits	Analytical Comments: c8,b1	
Dibromofluoromethane	110	70-130		05/22/2014 13:58
Toluene-d8	115	70-130		05/22/2014 13:58
4-BFB	98	70-130		05/22/2014 13:58

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4	1405744-016A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	**38**		10	1	05/22/2014 15:57
tert-Amyl methyl ether (TAME)	ND		0.50	1	05/22/2014 15:57
Benzene	ND		0.50	1	05/22/2014 15:57
Bromobenzene	ND		0.50	1	05/22/2014 15:57
Bromochloromethane	ND		0.50	1	05/22/2014 15:57
Bromodichloromethane	ND		0.50	1	05/22/2014 15:57
Bromoform	ND		0.50	1	05/22/2014 15:57
Bromomethane	ND		0.50	1	05/22/2014 15:57
2-Butanone (MEK)	**4.2**		2.0	1	05/22/2014 15:57
t-Butyl alcohol (TBA)	ND	B	5.0	1	05/22/2014 15:57
n-Butyl benzene	ND		0.50	1	05/22/2014 15:57
sec-Butyl benzene	ND		0.50	1	05/22/2014 15:57
tert-Butyl benzene	ND		0.50	1	05/22/2014 15:57
Carbon Disulfide	ND		0.50	1	05/22/2014 15:57
Carbon Tetrachloride	ND		0.50	1	05/22/2014 15:57
Chlorobenzene	ND		0.50	1	05/22/2014 15:57
Chloroethane	ND		0.50	1	05/22/2014 15:57
Chloroform	ND		0.50	1	05/22/2014 15:57
Chloromethane	ND		0.50	1	05/22/2014 15:57
2-Chlorotoluene	ND		0.50	1	05/22/2014 15:57
4-Chlorotoluene	ND		0.50	1	05/22/2014 15:57
Dibromochloromethane	ND		0.50	1	05/22/2014 15:57
1,2-Dibromo-3-chloropropane	ND		0.20	1	05/22/2014 15:57
1,2-Dibromoethane (EDB)	ND		0.50	1	05/22/2014 15:57
Dibromomethane	ND		0.50	1	05/22/2014 15:57
1,2-Dichlorobenzene	ND		0.50	1	05/22/2014 15:57
1,3-Dichlorobenzene	ND		0.50	1	05/22/2014 15:57
1,4-Dichlorobenzene	ND		0.50	1	05/22/2014 15:57
Dichlorodifluoromethane	ND		0.50	1	05/22/2014 15:57
1,1-Dichloroethane	ND		0.50	1	05/22/2014 15:57
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	05/22/2014 15:57
1,1-Dichloroethene	ND		0.50	1	05/22/2014 15:57
cis-1,2-Dichloroethene	ND		0.50	1	05/22/2014 15:57
trans-1,2-Dichloroethene	ND		0.50	1	05/22/2014 15:57
1,2-Dichloropropane	ND		0.50	1	05/22/2014 15:57
1,3-Dichloropropane	ND		0.50	1	05/22/2014 15:57
2,2-Dichloropropane	ND		0.50	1	05/22/2014 15:57
1,1-Dichloropropene	ND		0.50	1	05/22/2014 15:57

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4	1405744-016A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND		0.50	1	05/22/2014 15:57
trans-1,3-Dichloropropene	ND		0.50	1	05/22/2014 15:57
Diisopropyl ether (DIPE)	ND		0.50	1	05/22/2014 15:57
Ethylbenzene	ND		0.50	1	05/22/2014 15:57
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	05/22/2014 15:57
Freon 113	ND		0.50	1	05/22/2014 15:57
Hexachlorobutadiene	ND		0.50	1	05/22/2014 15:57
Hexachloroethane	ND		0.50	1	05/22/2014 15:57
2-Hexanone	ND		0.50	1	05/22/2014 15:57
Isopropylbenzene	ND		0.50	1	05/22/2014 15:57
4-Isopropyl toluene	ND		0.50	1	05/22/2014 15:57
Methyl-t-butyl ether (MTBE)	ND		0.50	1	05/22/2014 15:57
Methylene chloride	ND		0.50	1	05/22/2014 15:57
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	05/22/2014 15:57
Naphthalene	ND		0.50	1	05/22/2014 15:57
n-Propyl benzene	ND		0.50	1	05/22/2014 15:57
Styrene	ND		0.50	1	05/22/2014 15:57
1,1,1,2-Tetrachloroethane	ND		0.50	1	05/22/2014 15:57
1,1,2,2-Tetrachloroethane	ND		0.50	1	05/22/2014 15:57
Tetrachloroethene	ND		0.50	1	05/22/2014 15:57
Toluene	ND		0.50	1	05/22/2014 15:57
1,2,3-Trichlorobenzene	ND		0.50	1	05/22/2014 15:57
1,2,4-Trichlorobenzene	ND		0.50	1	05/22/2014 15:57
1,1,1-Trichloroethane	ND		0.50	1	05/22/2014 15:57
1,1,2-Trichloroethane	ND		0.50	1	05/22/2014 15:57
Trichloroethene	ND		0.50	1	05/22/2014 15:57
Trichlorofluoromethane	ND		0.50	1	05/22/2014 15:57
1,2,3-Trichloropropane	ND		0.50	1	05/22/2014 15:57
1,2,4-Trimethylbenzene	ND		0.50	1	05/22/2014 15:57
1,3,5-Trimethylbenzene	ND		0.50	1	05/22/2014 15:57
Vinyl Chloride	ND		0.50	1	05/22/2014 15:57
Xylenes, Total	ND		0.50	1	05/22/2014 15:57

Surrogates	REC (%)	Limits	Analytical Comments: b1	
Dibromofluoromethane	112	70-130		05/22/2014 15:57
Toluene-d8	113	70-130		05/22/2014 15:57
4-BFB	95	70-130		05/22/2014 15:57

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5	1405744-017A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	11		10	1	05/24/2014 02:01
tert-Amyl methyl ether (TAME)	ND		0.50	1	05/24/2014 02:01
Benzene	ND		0.50	1	05/24/2014 02:01
Bromobenzene	ND		0.50	1	05/24/2014 02:01
Bromochloromethane	ND		0.50	1	05/24/2014 02:01
Bromodichloromethane	ND		0.50	1	05/24/2014 02:01
Bromoform	ND		0.50	1	05/24/2014 02:01
Bromomethane	ND		0.50	1	05/24/2014 02:01
2-Butanone (MEK)	ND		2.0	1	05/24/2014 02:01
t-Butyl alcohol (TBA)	ND	B	5.0	1	05/24/2014 02:01
n-Butyl benzene	ND		0.50	1	05/24/2014 02:01
sec-Butyl benzene	ND		0.50	1	05/24/2014 02:01
tert-Butyl benzene	ND		0.50	1	05/24/2014 02:01
Carbon Disulfide	ND		0.50	1	05/24/2014 02:01
Carbon Tetrachloride	ND		0.50	1	05/24/2014 02:01
Chlorobenzene	ND		0.50	1	05/24/2014 02:01
Chloroethane	ND		0.50	1	05/24/2014 02:01
Chloroform	ND		0.50	1	05/24/2014 02:01
Chloromethane	ND		0.50	1	05/24/2014 02:01
2-Chlorotoluene	ND		0.50	1	05/24/2014 02:01
4-Chlorotoluene	ND		0.50	1	05/24/2014 02:01
Dibromochloromethane	ND		0.50	1	05/24/2014 02:01
1,2-Dibromo-3-chloropropane	ND		0.20	1	05/24/2014 02:01
1,2-Dibromoethane (EDB)	ND		0.50	1	05/24/2014 02:01
Dibromomethane	ND		0.50	1	05/24/2014 02:01
1,2-Dichlorobenzene	ND		0.50	1	05/24/2014 02:01
1,3-Dichlorobenzene	ND		0.50	1	05/24/2014 02:01
1,4-Dichlorobenzene	ND		0.50	1	05/24/2014 02:01
Dichlorodifluoromethane	ND		0.50	1	05/24/2014 02:01
1,1-Dichloroethane	ND		0.50	1	05/24/2014 02:01
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	05/24/2014 02:01
1,1-Dichloroethene	ND		0.50	1	05/24/2014 02:01
cis-1,2-Dichloroethene	ND		0.50	1	05/24/2014 02:01
trans-1,2-Dichloroethene	ND		0.50	1	05/24/2014 02:01
1,2-Dichloropropane	ND		0.50	1	05/24/2014 02:01
1,3-Dichloropropane	ND		0.50	1	05/24/2014 02:01
2,2-Dichloropropane	ND		0.50	1	05/24/2014 02:01
1,1-Dichloropropene	ND		0.50	1	05/24/2014 02:01

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5	1405744-017A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND		0.50	1	05/24/2014 02:01
trans-1,3-Dichloropropene	ND		0.50	1	05/24/2014 02:01
Diisopropyl ether (DIPE)	ND		0.50	1	05/24/2014 02:01
Ethylbenzene	ND		0.50	1	05/24/2014 02:01
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	05/24/2014 02:01
Freon 113	ND		0.50	1	05/24/2014 02:01
Hexachlorobutadiene	ND		0.50	1	05/24/2014 02:01
Hexachloroethane	ND		0.50	1	05/24/2014 02:01
2-Hexanone	ND		0.50	1	05/24/2014 02:01
Isopropylbenzene	ND		0.50	1	05/24/2014 02:01
4-Isopropyl toluene	ND		0.50	1	05/24/2014 02:01
Methyl-t-butyl ether (MTBE)	ND		0.50	1	05/24/2014 02:01
Methylene chloride	ND		0.50	1	05/24/2014 02:01
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	05/24/2014 02:01
Naphthalene	ND		0.50	1	05/24/2014 02:01
n-Propyl benzene	ND		0.50	1	05/24/2014 02:01
Styrene	ND		0.50	1	05/24/2014 02:01
1,1,1,2-Tetrachloroethane	ND		0.50	1	05/24/2014 02:01
1,1,2,2-Tetrachloroethane	ND		0.50	1	05/24/2014 02:01
Tetrachloroethene	ND		0.50	1	05/24/2014 02:01
Toluene	ND		0.50	1	05/24/2014 02:01
1,2,3-Trichlorobenzene	ND		0.50	1	05/24/2014 02:01
1,2,4-Trichlorobenzene	ND		0.50	1	05/24/2014 02:01
1,1,1-Trichloroethane	ND		0.50	1	05/24/2014 02:01
1,1,2-Trichloroethane	ND		0.50	1	05/24/2014 02:01
Trichloroethene	ND		0.50	1	05/24/2014 02:01
Trichlorofluoromethane	ND		0.50	1	05/24/2014 02:01
1,2,3-Trichloropropane	ND		0.50	1	05/24/2014 02:01
1,2,4-Trimethylbenzene	ND		0.50	1	05/24/2014 02:01
1,3,5-Trimethylbenzene	ND		0.50	1	05/24/2014 02:01
Vinyl Chloride	ND		0.50	1	05/24/2014 02:01
Xylenes, Total	ND		0.50	1	05/24/2014 02:01

Surrogates	REC (%)	Limits	Analytical Comments: b1
Dibromofluoromethane	110	70-130	05/24/2014 02:01
Toluene-d8	117	70-130	05/24/2014 02:01
4-BFB	103	70-130	05/24/2014 02:01

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6	1405744-018A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	**30**		10	1	05/24/2014 02:39
tert-Amyl methyl ether (TAME)	ND		0.50	1	05/24/2014 02:39
Benzene	ND		0.50	1	05/24/2014 02:39
Bromobenzene	ND		0.50	1	05/24/2014 02:39
Bromochloromethane	ND		0.50	1	05/24/2014 02:39
Bromodichloromethane	ND		0.50	1	05/24/2014 02:39
Bromoform	ND		0.50	1	05/24/2014 02:39
Bromomethane	ND		0.50	1	05/24/2014 02:39
2-Butanone (MEK)	**4.5**		2.0	1	05/24/2014 02:39
t-Butyl alcohol (TBA)	ND	B	5.0	1	05/24/2014 02:39
n-Butyl benzene	ND		0.50	1	05/24/2014 02:39
sec-Butyl benzene	ND		0.50	1	05/24/2014 02:39
tert-Butyl benzene	ND		0.50	1	05/24/2014 02:39
Carbon Disulfide	ND		0.50	1	05/24/2014 02:39
Carbon Tetrachloride	ND		0.50	1	05/24/2014 02:39
Chlorobenzene	ND		0.50	1	05/24/2014 02:39
Chloroethane	ND		0.50	1	05/24/2014 02:39
Chloroform	ND		0.50	1	05/24/2014 02:39
Chloromethane	ND		0.50	1	05/24/2014 02:39
2-Chlorotoluene	ND		0.50	1	05/24/2014 02:39
4-Chlorotoluene	ND		0.50	1	05/24/2014 02:39
Dibromochloromethane	ND		0.50	1	05/24/2014 02:39
1,2-Dibromo-3-chloropropane	ND		0.20	1	05/24/2014 02:39
1,2-Dibromoethane (EDB)	ND		0.50	1	05/24/2014 02:39
Dibromomethane	ND		0.50	1	05/24/2014 02:39
1,2-Dichlorobenzene	ND		0.50	1	05/24/2014 02:39
1,3-Dichlorobenzene	ND		0.50	1	05/24/2014 02:39
1,4-Dichlorobenzene	ND		0.50	1	05/24/2014 02:39
Dichlorodifluoromethane	ND		0.50	1	05/24/2014 02:39
1,1-Dichloroethane	ND		0.50	1	05/24/2014 02:39
1,2-Dichloroethane (1,2-DCA)	ND		0.50	1	05/24/2014 02:39
1,1-Dichloroethene	ND		0.50	1	05/24/2014 02:39
cis-1,2-Dichloroethene	ND		0.50	1	05/24/2014 02:39
trans-1,2-Dichloroethene	ND		0.50	1	05/24/2014 02:39
1,2-Dichloropropane	ND		0.50	1	05/24/2014 02:39
1,3-Dichloropropane	ND		0.50	1	05/24/2014 02:39
2,2-Dichloropropane	ND		0.50	1	05/24/2014 02:39
1,1-Dichloropropene	ND		0.50	1	05/24/2014 02:39

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW5030B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8260B
Date Prepared:	5/22/14-5/24/14	**Unit:**	µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6	1405744-018A	Water	05/19/2014	GC28	90789

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
cis-1,3-Dichloropropene	ND		0.50	1	05/24/2014 02:39
trans-1,3-Dichloropropene	ND		0.50	1	05/24/2014 02:39
Diisopropyl ether (DIPE)	ND		0.50	1	05/24/2014 02:39
Ethylbenzene	ND		0.50	1	05/24/2014 02:39
Ethyl tert-butyl ether (ETBE)	ND		0.50	1	05/24/2014 02:39
Freon 113	ND		0.50	1	05/24/2014 02:39
Hexachlorobutadiene	ND		0.50	1	05/24/2014 02:39
Hexachloroethane	ND		0.50	1	05/24/2014 02:39
2-Hexanone	ND		0.50	1	05/24/2014 02:39
Isopropylbenzene	ND		0.50	1	05/24/2014 02:39
4-Isopropyl toluene	ND		0.50	1	05/24/2014 02:39
Methyl-t-butyl ether (MTBE)	ND		0.50	1	05/24/2014 02:39
Methylene chloride	ND		0.50	1	05/24/2014 02:39
4-Methyl-2-pentanone (MIBK)	ND		0.50	1	05/24/2014 02:39
Naphthalene	ND		0.50	1	05/24/2014 02:39
n-Propyl benzene	ND		0.50	1	05/24/2014 02:39
Styrene	ND		0.50	1	05/24/2014 02:39
1,1,1,2-Tetrachloroethane	ND		0.50	1	05/24/2014 02:39
1,1,2,2-Tetrachloroethane	ND		0.50	1	05/24/2014 02:39
Tetrachloroethene	ND		0.50	1	05/24/2014 02:39
Toluene	ND		0.50	1	05/24/2014 02:39
1,2,3-Trichlorobenzene	ND		0.50	1	05/24/2014 02:39
1,2,4-Trichlorobenzene	ND		0.50	1	05/24/2014 02:39
1,1,1-Trichloroethane	ND		0.50	1	05/24/2014 02:39
1,1,2-Trichloroethane	ND		0.50	1	05/24/2014 02:39
Trichloroethene	ND		0.50	1	05/24/2014 02:39
Trichlorofluoromethane	ND		0.50	1	05/24/2014 02:39
1,2,3-Trichloropropane	ND		0.50	1	05/24/2014 02:39
1,2,4-Trimethylbenzene	ND		0.50	1	05/24/2014 02:39
1,3,5-Trimethylbenzene	ND		0.50	1	05/24/2014 02:39
Vinyl Chloride	ND		0.50	1	05/24/2014 02:39
Xylenes, Total	ND		0.50	1	05/24/2014 02:39

Surrogates	REC (%)	Limits	Analytical Comments: b1	
Dibromofluoromethane	112	70-130		05/24/2014 02:39
Toluene-d8	116	70-130		05/24/2014 02:39
4-BFB	102	70-130		05/24/2014 02:39

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW3050B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW6020
Date Prepared:	5/21/14	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1-1	1405744-001A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.72**	0.25	1	05/22/2014 18:59
Chromium	**62**	0.50	1	05/22/2014 18:59
Lead	**12**	0.50	1	05/22/2014 18:59
Nickel	**67**	0.50	1	05/22/2014 18:59
Zinc	**48**	5.0	1	05/22/2014 18:59

Surrogates	REC (%)	Limits	
Tb 350.917	106	70-130	05/22/2014 18:59

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1-7	1405744-002A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.37**	0.25	1	05/22/2014 19:05
Chromium	**47**	0.50	1	05/22/2014 19:05
Lead	**6.5**	0.50	1	05/22/2014 19:05
Nickel	**40**	0.50	1	05/22/2014 19:05
Zinc	**34**	5.0	1	05/22/2014 19:05

Surrogates	REC (%)	Limits	
Tb 350.917	107	70-130	05/22/2014 19:05

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2-2	1405744-003A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**1.0**	0.25	1	05/22/2014 19:12
Chromium	**100**	5.0	10	05/22/2014 18:53
Lead	**6.5**	0.50	1	05/22/2014 19:12
Nickel	**150**	5.0	10	05/22/2014 18:53
Zinc	**33**	5.0	1	05/22/2014 19:12

Surrogates	REC (%)	Limits	
Tb 350.917	107	70-130	05/22/2014 19:12

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW3050B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW6020
Date Prepared:	5/21/14	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2-7	1405744-004A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.58**	0.25	1	05/22/2014 19:31
Chromium	**46**	0.50	1	05/22/2014 19:31
Lead	**2.9**	0.50	1	05/22/2014 19:31
Nickel	**50**	0.50	1	05/22/2014 19:31
Zinc	**33**	5.0	1	05/22/2014 19:31

Surrogates	REC (%)	Limits	
Tb 350.917	107	70-130	05/22/2014 19:31

B-3-2.5	1405744-005A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/23/2014 01:29
Chromium	**61**	0.50	1	05/23/2014 01:29
Lead	**10**	0.50	1	05/23/2014 01:29
Nickel	**58**	0.50	1	05/23/2014 01:29
Zinc	**48**	5.0	1	05/23/2014 01:29

Surrogates	REC (%)	Limits	
Tb 350.917	111	70-130	05/23/2014 01:29

B-3-10	1405744-006A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/22/2014 19:37
Chromium	**40**	0.50	1	05/22/2014 19:37
Lead	**2.3**	0.50	1	05/22/2014 19:37
Nickel	**28**	0.50	1	05/22/2014 19:37
Zinc	**25**	5.0	1	05/22/2014 19:37

Surrogates	REC (%)	Limits	
Tb 350.917	107	70-130	05/22/2014 19:37

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW3050B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW6020
Date Prepared:	5/21/14	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4-2	1405744-007A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.45**	0.25	1	05/22/2014 19:43
Chromium	**52**	0.50	1	05/22/2014 19:43
Lead	**9.0**	0.50	1	05/22/2014 19:43
Nickel	**70**	0.50	1	05/22/2014 19:43
Zinc	**48**	5.0	1	05/22/2014 19:43

Surrogates	REC (%)	Limits	
Tb 350.917	108	70-130	05/22/2014 19:43

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4-4	1405744-008A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/21/2014 19:03
Chromium	**50**	0.50	1	05/21/2014 19:03
Lead	**3.4**	0.50	1	05/21/2014 19:03
Nickel	**37**	0.50	1	05/21/2014 19:03
Zinc	**30**	5.0	1	05/21/2014 19:03

Surrogates	REC (%)	Limits	
Tb 350.917	126	70-130	05/21/2014 19:03

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5-2	1405744-009A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.43**	0.25	1	05/21/2014 19:09
Chromium	**78**	0.50	1	05/21/2014 19:09
Lead	**12**	0.50	1	05/21/2014 19:09
Nickel	**84**	0.50	1	05/21/2014 19:09
Zinc	**53**	5.0	1	05/21/2014 19:09

Surrogates	REC (%)	Limits	
Tb 350.917	127	70-130	05/21/2014 19:09

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW3050B
Date Received:	5/19/14 23:14	**Analytical Method:**	SW6020
Date Prepared:	5/21/14	**Unit:**	mg/Kg

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5-3.5	1405744-010A	Soil/TOTAL	05/19/2014	ICP-MS1	90711

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/21/2014 19:15
Chromium	**50**	0.50	1	05/21/2014 19:15
Lead	**3.7**	0.50	1	05/21/2014 19:15
Nickel	**37**	0.50	1	05/21/2014 19:15
Zinc	**30**	5.0	1	05/21/2014 19:15

Surrogates	REC (%)	Limits	
Tb 350.917	126	70-130	05/21/2014 19:15

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6-2	1405744-011A	Soil/TOTAL	05/19/2014	ICP-MS1	90730

Analytes	Result	RL	DF	Date Analyzed
Cadmium	ND	0.25	1	05/21/2014 19:22
Chromium	**43**	0.50	1	05/21/2014 19:22
Lead	**4.1**	0.50	1	05/21/2014 19:22
Nickel	**22**	0.50	1	05/21/2014 19:22
Zinc	**22**	5.0	1	05/21/2014 19:22

Surrogates	REC (%)	Limits	
Tb 350.917	127	70-130	05/21/2014 19:22

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6-4	1405744-012A	Soil/TOTAL	05/19/2014	ICP-MS1	90730

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**0.37**	0.25	1	05/21/2014 19:28
Chromium	**49**	0.50	1	05/21/2014 19:28
Lead	**5.9**	0.50	1	05/21/2014 19:28
Nickel	**34**	0.50	1	05/21/2014 19:28
Zinc	**29**	5.0	1	05/21/2014 19:28

Surrogates	REC (%)	Limits	
Tb 350.917	114	70-130	05/21/2014 19:28

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	E200.8
Date Received:	5/19/14 23:14	**Analytical Method:**	E200.8
Date Prepared:	5/20/14	**Unit:**	µg/L

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-2	**1405744-014B**	**Water/TOTAL**	**05/19/2014**	**ICP-MS1**	**90624**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**22**	5.0	20	05/22/2014 20:48
Chromium	**1400**	10	20	05/22/2014 20:48
Lead	**180**	10	20	05/22/2014 20:48
Nickel	**2400**	50	100	05/24/2014 02:49
Zinc	**1500**	100	20	05/22/2014 20:48

Surrogates	REC (%)	Limits	Analytical Comments: b1
Tb 350.917	107	70-130	05/22/2014 20:48

B-3	1405744-015B	Water/TOTAL	05/19/2014	ICP-MS1	90624

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**34**	5.0	20	05/21/2014 14:42
Chromium	**2200**	50	100	05/22/2014 20:55
Lead	**310**	10	20	05/21/2014 14:42
Nickel	**3400**	50	100	05/22/2014 20:55
Zinc	**2700**	100	20	05/21/2014 14:42

Surrogates	REC (%)	Limits	Analytical Comments: a1,b1
Tb 350.917	124	70-130	05/21/2014 14:42

B-4	1405744-016B	Water/TOTAL	05/19/2014	ICP-MS1	90624

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**5.6**	5.0	20	05/21/2014 14:49
Chromium	**590**	10	20	05/21/2014 14:49
Lead	**85**	10	20	05/21/2014 14:49
Nickel	**620**	10	20	05/21/2014 14:49
Zinc	**550**	100	20	05/21/2014 14:49

Surrogates	REC (%)	Limits	Analytical Comments: b1
Tb 350.917	113	70-130	05/21/2014 14:49

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	E200.8
Date Received:	5/19/14 23:14	**Analytical Method:**	E200.8
Date Prepared:	5/20/14	**Unit:**	µg/L

LUFT 5 Metals

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5	**1405744-017B**	**Water/TOTAL**	**05/19/2014**	**ICP-MS1**	**90624**

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**5.4**	5.0	20	05/21/2014 14:55
Chromium	**570**	10	20	05/21/2014 14:55
Lead	**58**	10	20	05/21/2014 14:55
Nickel	**630**	10	20	05/21/2014 14:55
Zinc	**480**	100	20	05/21/2014 14:55

Surrogates	REC (%)	Limits	Analytical Comments: b1	
Tb 350.917	109	70-130		05/21/2014 14:55

B-6	1405744-018B	Water/TOTAL	05/19/2014	ICP-MS1	90624

Analytes	Result	RL	DF	Date Analyzed
Cadmium	**14**	5.0	20	05/21/2014 15:14
Chromium	**940**	10	20	05/21/2014 15:14
Lead	**160**	10	20	05/21/2014 15:14
Nickel	**1200**	10	20	05/21/2014 15:14
Zinc	**890**	100	20	05/21/2014 15:14

Surrogates	REC (%)	Limits	Analytical Comments: b1	
Tb 350.917	112	70-130		05/21/2014 15:14

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ESA	Client Project ID: #120832-4E; SFO Plot 700	Date Sampled: 05/19/14
		Date Received: 05/19/14
1425 N. McDowell Blvd. Ste.200	Client Contact: Michael G. Burns	Date Extracted: 05/20/14
Petaluma, CA 94954	Client P.O.:	Date Analyzed: 05/25/14-05/29/14

Fuel FingerPrint *

Extraction method: SW3550B/3630C Analytical methods: SW8015B Work Order: 1405744

Lab ID	Client ID	Matrix	Fuel Fingerprint
1405744-001A	B-1-1	S	This sample contains a small pattern in diesel range between C10 and C23, and has a hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.
1405744-002A	B-1-7	S	This sample contains a small pattern within the oil range and a hydrocarbon pattern between C9-C12 that resembles stoddard solvent Chromatogram enclosed.
1405744-003A	B-2-2	S	This sample contains a small pattern in diesel range between C10 and C23, and has a hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.
1405744-004A	B-2-7	S	This sample contains a small pattern in diesel range between C10 and C23, and has a hydrocarbon between C18 and C36 that resembles oil. Chromatogram enclosed.
1405744-005A	B-3-2.5	S	This sample has a small pattern in diesel range between C10 and C23, and also contains a significant hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.

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ESA	Client Project ID: #120832-4E; SFO Plot 700	Date Sampled: 05/19/14
		Date Received: 05/19/14
1425 N. McDowell Blvd. Ste.200	Client Contact: Michael G. Burns	Date Extracted: 05/20/14
Petaluma, CA 94954	Client P.O.:	Date Analyzed: 05/25/14-05/29/14

Fuel FingerPrint *

Extraction method: SW3550B/3630C Analytical methods: SW8015B Work Order: 1405744

Lab ID	Client ID	Matrix	Fuel Fingerprint
1405744-006A	B-3-10	S	This sample contains a small pattern in the diesel range between C10 and C23, and has a significant hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.
1405744-007A	B-4-2	S	This sample has a small pattern in diesel range between C10 and C23, and also contains a significant hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.
1405744-008A	B-4-4	S	This sample contains a small pattern in diesel range between C10 and C23, and has a hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.
1405744-009A	B-5-2	S	This sample contains a pattern in diesel range between C10 and C23, and has a hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.
1405744-010A	B-5-3.5	S	This sample contains a small pattern in diesel range between C10 and C23, and has a hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.

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ESA	Client Project ID: #120832-4E; SFO Plot 700	Date Sampled: 05/19/14
		Date Received: 05/19/14
1425 N. McDowell Blvd. Ste.200	Client Contact: Michael G. Burns	Date Extracted: 05/20/14
Petaluma, CA 94954	Client P.O.:	Date Analyzed: 05/25/14-05/29/14

Fuel FingerPrint *

Extraction method: SW3550B/3630C Analytical methods: SW8015B Work Order: 1405744

Lab ID	Client ID	Matrix	Fuel Fingerprint
1405744-011A	B-6-2	S	This sample contains a small pattern in diesel range between C10 and C23, and has a significant hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.
1405744-012A	B-6-4	S	This sample contains a pattern in diesel range between C10 and C23, and has a hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.

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ESA 1425 N. McDowell Blvd. Ste.200 Petaluma, CA 94954	Client Project ID: #120832-4E; SFO Plot 700	Date Sampled: 05/19/14
		Date Received: 05/19/14
	Client Contact: Michael G. Burns	Date Extracted: 05/20/14-05/27/14
	Client P.O.:	Date Analyzed: 05/25/14-05/28/14

Fuel FingerPrint *

Extraction method: SW3510C/3630C Analytical methods: SW8015B Work Order: 1405744

Lab ID	Client ID	Matrix	Fuel Fingerprint
1405744-013A	B-1	W	This sample contains a small pattern in the diesel range C10-C23 and a significant hydrocarbon pattern between C18 and C30 that resembles oil. Chromatogram enclosed.
1405744-014C	B-2	W	No Detectable Pattern.
1405744-015C	B-3	W	No Detectable Pattern.
1405744-016C	B-4	W	This sample contains a small pattern in diesel range between C10 and C23, and a significant hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.
1405744-017C	B-5	W	This sample contains an unrecognizable pattern in diesel range between C10 and C23.and a significant hydrocarbon pattern between C18 and C36 that resembles oil. Chromatogram enclosed.

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ESA	Client Project ID: #120832-4E; SFO Plot 700	Date Sampled: 05/19/14
		Date Received: 05/19/14
1425 N. McDowell Blvd. Ste.200	Client Contact: Michael G. Burns	Date Extracted: 05/20/14-05/27/14
Petaluma, CA 94954	Client P.O.:	Date Analyzed: 05/25/14-05/28/14

Fuel FingerPrint *

Extraction method: SW3510C/3630C | Analytical methods: SW8015B | Work Order: 1405744

Lab ID	Client ID	Matrix	Fuel Fingerprint
1405744-018C	B-6	W	This sample contians a hydrocarbon pattern between C9-C12 that resembles stoddard solvent, and a pattern between C18-C36 that resembles oil . Chromatogram enclosed.

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW3550B/3630C
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8015B
Date Prepared:	5/20/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1-1	**1405744-001A**	**Soil**	**05/19/2014**	**GC6B**	**90633**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.8**	1.0	1	05/26/2014 11:59
TPH-Motor Oil (C18-C36)	**10**	5.0	1	05/26/2014 11:59
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	101	70-130		05/26/2014 11:59

B-1-7	1405744-002A	Soil	05/19/2014	GC6B	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**9.1**	1.0	1	05/25/2014 23:50
TPH-Motor Oil (C18-C36)	**6.3**	5.0	1	05/25/2014 23:50
Surrogates	REC (%)	Limits	Analytical Comments: e11,e7	
C9	100	70-130		05/25/2014 23:50

B-2-2	1405744-003A	Soil	05/19/2014	GC2A	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**27**	5.0	5	05/27/2014 18:22
TPH-Motor Oil (C18-C36)	**130**	25	5	05/27/2014 18:22
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	116	70-130		05/27/2014 18:22

B-2-7	1405744-004A	Soil	05/19/2014	GC6B	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.7**	1.0	1	05/29/2014 05:01
TPH-Motor Oil (C18-C36)	**6.8**	5.0	1	05/29/2014 05:01
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	120	70-130		05/29/2014 05:01

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW3550B/3630C
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8015B
Date Prepared:	5/20/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3-2.5	1405744-005A	Soil	05/19/2014	GC11B	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**11**	2.0	2	05/26/2014 12:38
TPH-Motor Oil (C18-C36)	**39**	10	2	05/26/2014 12:38
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	118	70-130		05/26/2014 12:38

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-3-10	1405744-006A	Soil	05/19/2014	GC6A	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.1**	1.0	1	05/27/2014 19:29
TPH-Motor Oil (C18-C36)	**6.3**	5.0	1	05/27/2014 19:29
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	125	70-130		05/27/2014 19:29

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4-2	1405744-007A	Soil	05/19/2014	GC11B	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**35**	20	20	05/26/2014 17:19
TPH-Motor Oil (C18-C36)	**580**	100	20	05/26/2014 17:19
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	121	70-130		05/26/2014 17:19

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-4-4	1405744-008A	Soil	05/19/2014	GC9b	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**12**	10	10	05/29/2014 02:52
TPH-Motor Oil (C18-C36)	**100**	50	10	05/29/2014 02:52
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	110	70-130		05/29/2014 02:52

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW3550B/3630C
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8015B
Date Prepared:	5/20/14	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5-2	**1405744-009A**	**Soil**	**05/19/2014**	**GC9b**	**90633**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**13**	2.0	2	05/29/2014 06:17
TPH-Motor Oil (C18-C36)	**53**	10	2	05/29/2014 06:17
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	109	70-130		05/29/2014 06:17

B-5-3.5	1405744-010A	Soil	05/19/2014	GC11B	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**32**	1.0	1	05/27/2014 18:18
TPH-Motor Oil (C18-C36)	**150**	5.0	1	05/27/2014 18:18
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	126	70-130		05/27/2014 18:18

B-6-2	1405744-011A	Soil	05/19/2014	GC9b	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**3.6**	1.0	1	05/29/2014 10:51
TPH-Motor Oil (C18-C36)	**34**	5.0	1	05/29/2014 10:51
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	119	70-130		05/29/2014 10:51

B-6-4	1405744-012A	Soil	05/19/2014	GC9b	90633

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**52**	5.0	5	05/28/2014 23:26
TPH-Motor Oil (C18-C36)	**57**	25	5	05/28/2014 23:26
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	111	70-130		05/28/2014 23:26

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW3510C/3630C
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8015B
Date Prepared:	5/20/14-5/27/14	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-1	**1405744-013A**	**Water**	**05/19/2014**	**GC6B**	**90869**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**140**	50	1	05/28/2014 00:23
TPH-Motor Oil (C18-C36)	**300**	250	1	05/28/2014 00:23
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	96	70-130		05/28/2014 00:23

B-2	**1405744-014C**	**Water**	**05/19/2014**	**GC6B**	**90644**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	05/28/2014 02:47
TPH-Motor Oil (C18-C36)	ND	250	1	05/28/2014 02:47
Surrogates	REC (%)	Limits		
C9	111	70-130		05/28/2014 02:47

B-3	**1405744-015C**	**Water**	**05/19/2014**	**GC6B**	**90644**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	50	1	05/25/2014 16:19
TPH-Motor Oil (C18-C36)	ND	250	1	05/25/2014 16:19
Surrogates	REC (%)	Limits		
C9	100	70-130		05/25/2014 16:19

B-4	**1405744-016C**	**Water**	**05/19/2014**	**GC6B**	**90644**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**86**	50	1	05/26/2014 03:29
TPH-Motor Oil (C18-C36)	**510**	250	1	05/26/2014 03:29
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	102	70-130		05/26/2014 03:29

(Cont.)

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Analytical Report

Client:	ESA	**WorkOrder:**	1405744
Project:	#120832-4E; SFO Plot 700	**Extraction Method:**	SW3510C/3630C
Date Received:	5/19/14 23:14	**Analytical Method:**	SW8015B
Date Prepared:	5/20/14-5/27/14	**Unit:**	µg/L

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-5	**1405744-017C**	**Water**	**05/19/2014**	**GC6B**	**90644**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**110**	50	1	05/26/2014 02:16
TPH-Motor Oil (C18-C36)	ND	250	1	05/26/2014 02:16
Surrogates	REC (%)	Limits	Analytical Comments: e7,e2	
C9	101	70-130		05/26/2014 02:16

Client ID	Lab ID	Matrix/ExtType	Date Collected	Instrument	Batch ID
B-6	**1405744-018C**	**Water**	**05/19/2014**	**GC6B**	**90644**

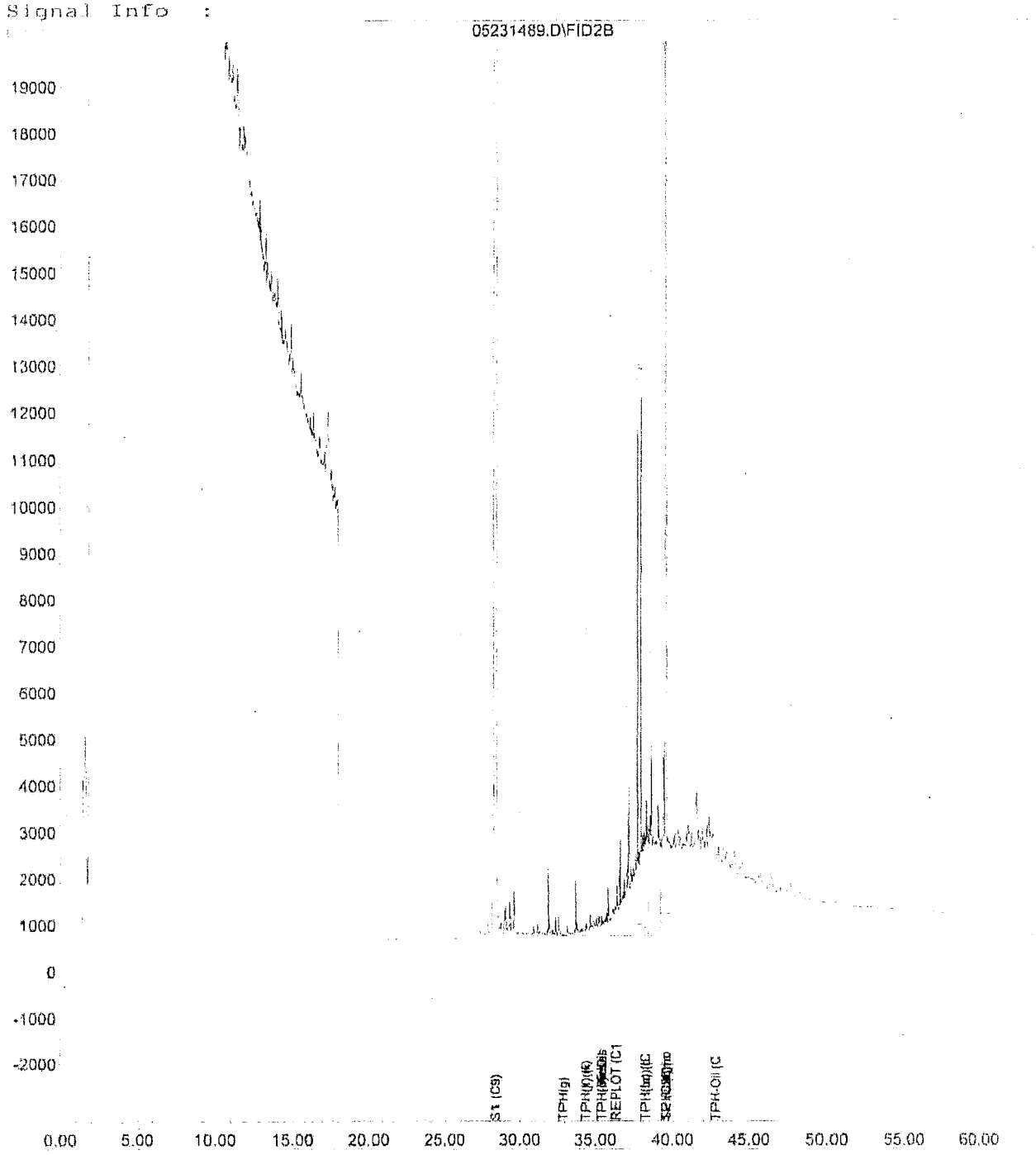
Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**260**	50	1	05/26/2014 04:41
TPH-Motor Oil (C18-C36)	**740**	250	1	05/26/2014 04:41
Surrogates	REC (%)	Limits	Analytical Comments: e11,e7	
C9	103	70-130		05/26/2014 04:41

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\GC6\DATAB\05231489.D Vial: 95
Acq On : 26 May 2014 11:59 am Operator: Mariel
Sample : 1405744-001A S FF Inst : GC-6
Misc : TPHSG MultiplIr: 1.00
IntFile : EVENTS.E
Quant Time: May 28 9:50 2014 Quant Results File: GC6BE.RES

Quant Method : D:\HPCHEM\GC6\METHODS\GC6BE.M (Chemstation Integrator)
Title : GC-2B
Last Update : Sun May 18 13:56:07 2014
Response via : Multiple Level Calibration
DataAcq Meth : GC6AF.M

Volume Inj. :
Signal Phase :
Signal Info :



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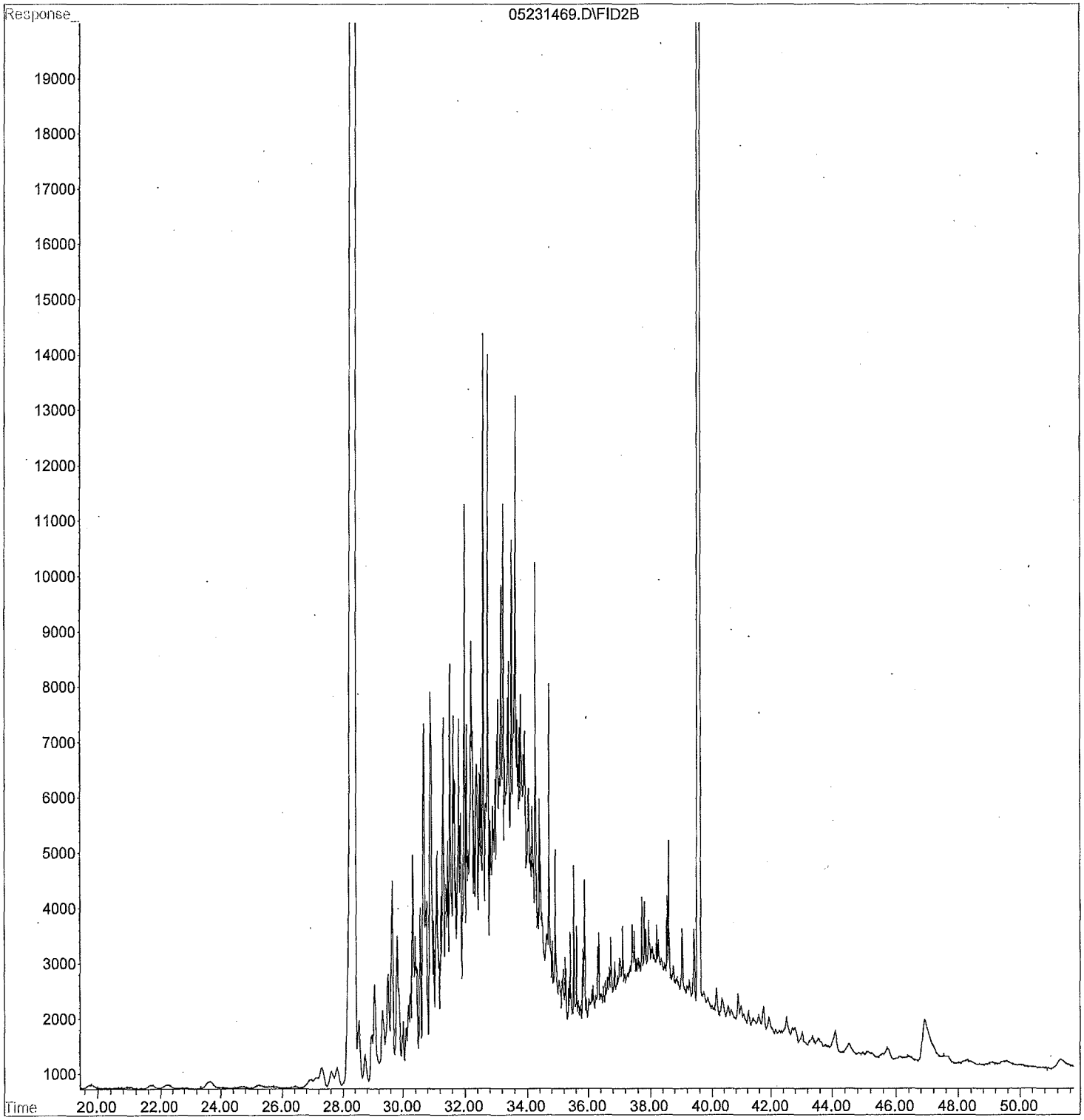
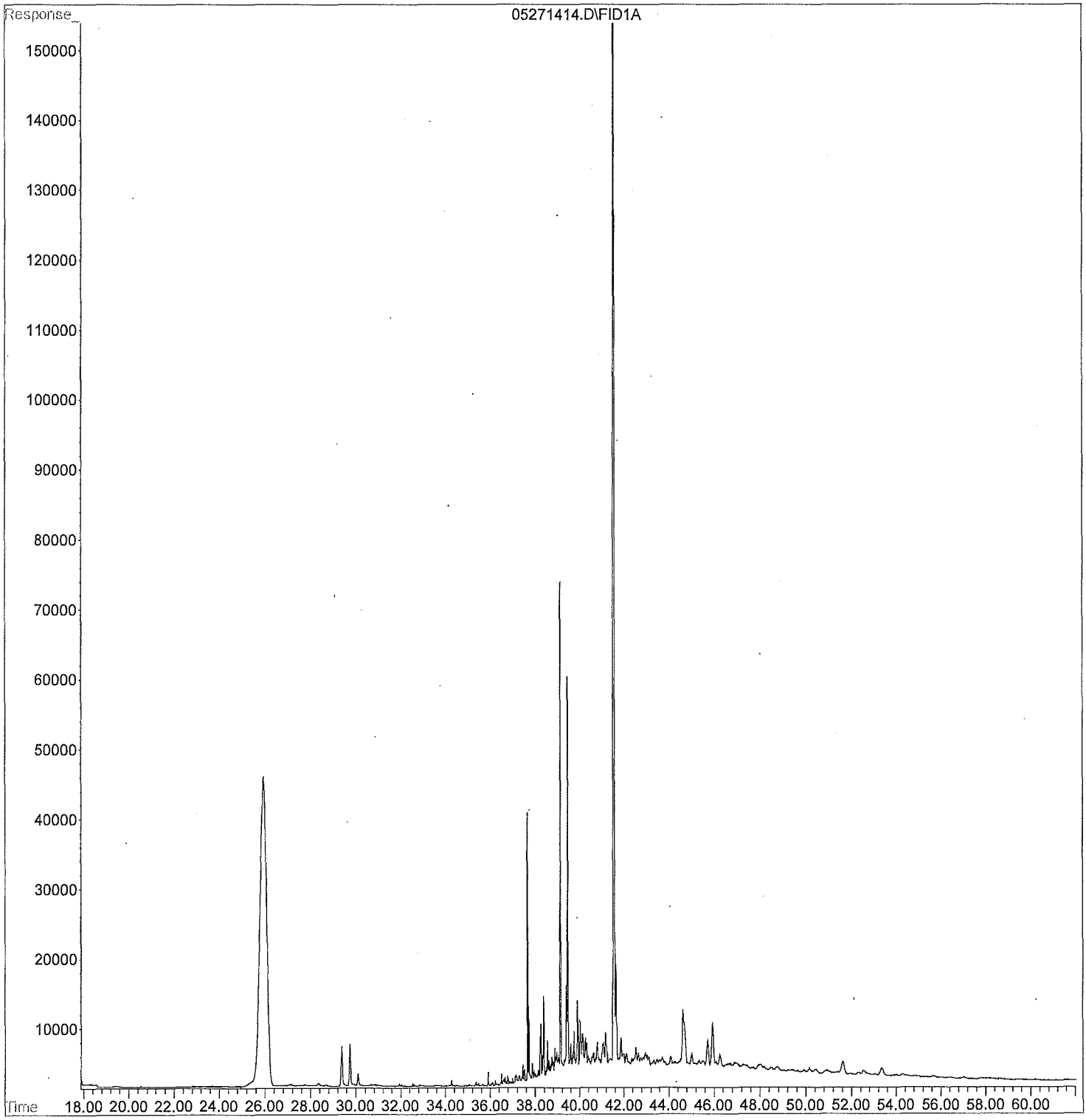
Operator : Mariel
Acquired : 25 May 2014 11:50 pm using AcqMethod GC6AF.M
Instrument : GC-6
Sample Name: 1405744-002A S FF
Misc Info : TPHSG
Vial Number: 85



File : D:\HPCHEM\GC2\DATAA\05271414.D
Operator : Mariel
Acquired : 27 May 2014 6:22 pm using AcqMethod GC2ALVI2.M
Instrument : GC-2
Sample Name: 1405744-003A S FF
Misc Info : TPH
Vial Number: 7



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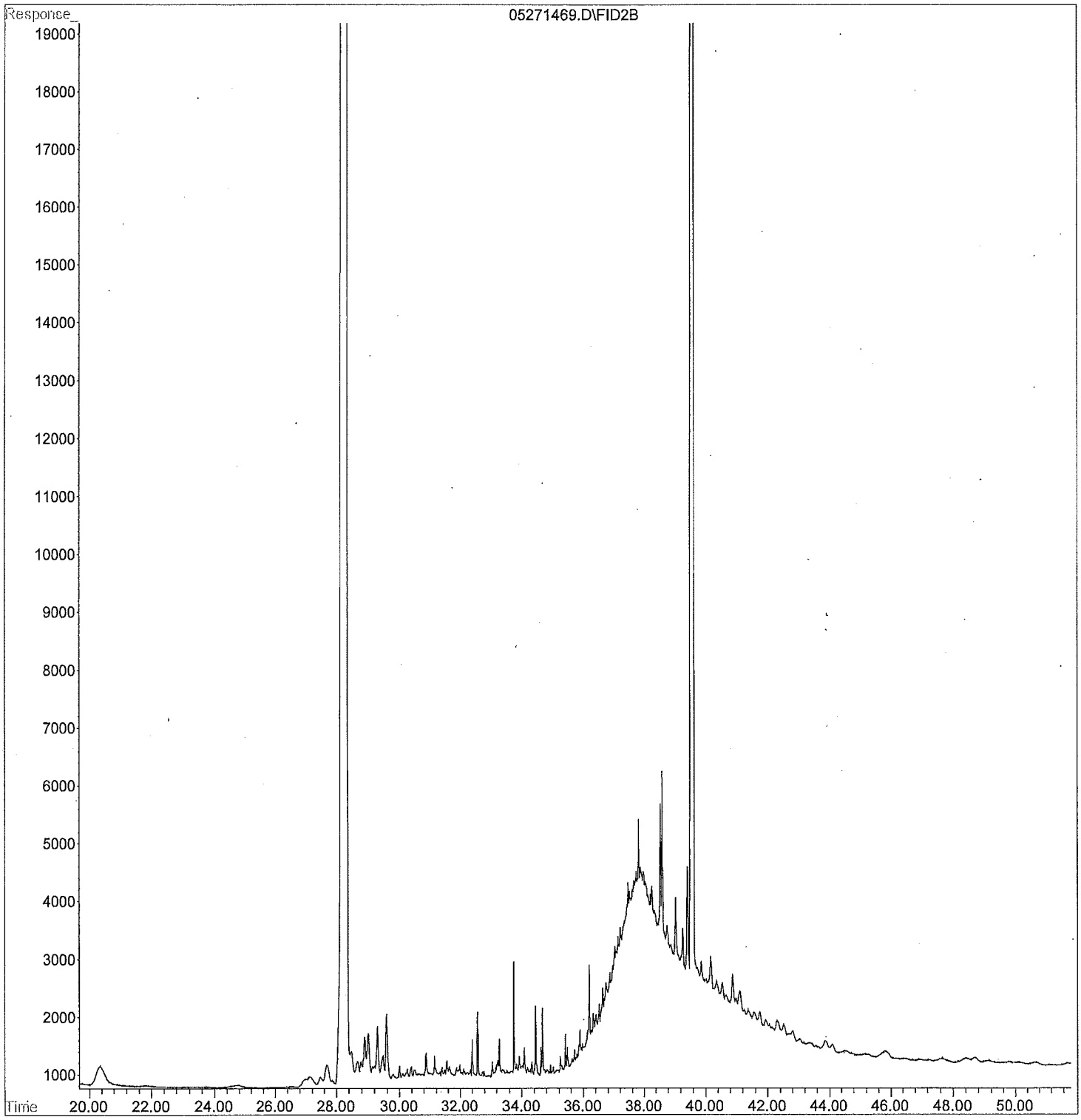
Acquired : 29 May 2014 5:01 am using AcqMethod GC6AF.M
Instrument : GC-6
Sample Name: 1405744-004A S
Misc Info : TPHSG
Vial Number: 85



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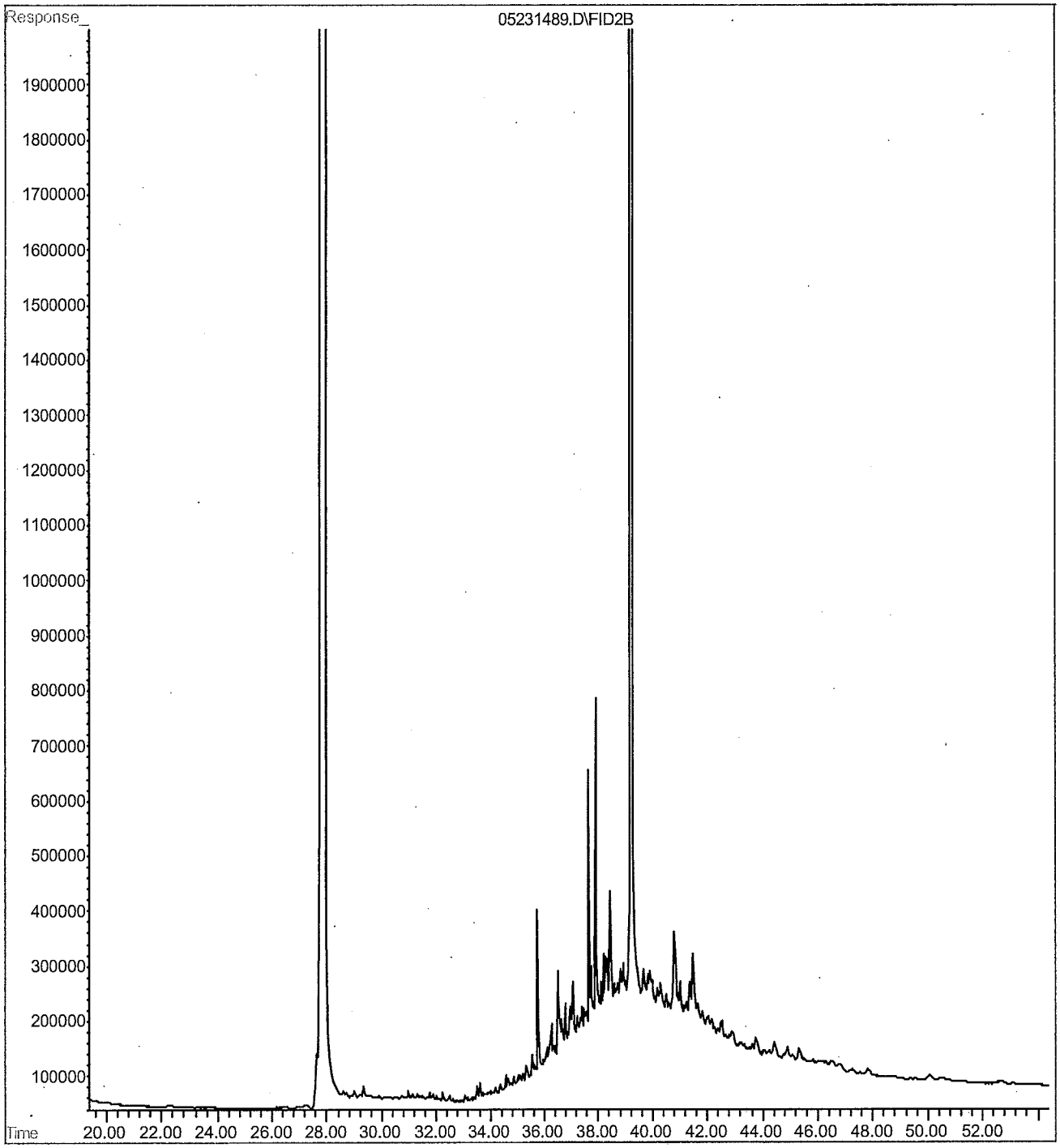
Operator : Mariel
Acquired : 26 May 2014 12:38 pm using AcqMethod GC11AC.M
Instrument : GC-11
Sample Name: 1405744-005A S FF
Misc Info : TPHSG
Vial Number: 95



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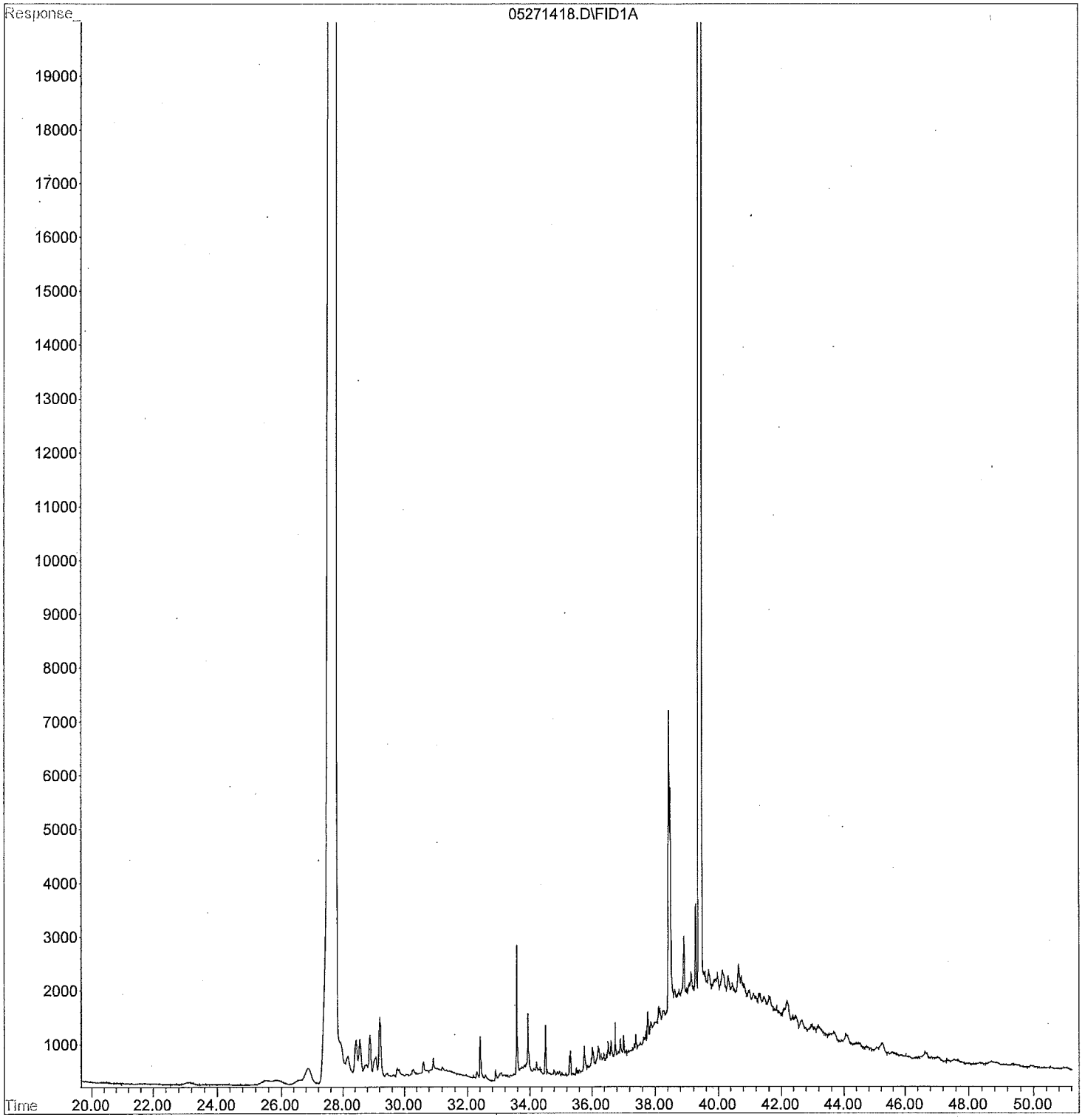
Operator : Mariel
Acquired : 27 May 2014 7:29 pm using AcqMethod GC6AF.M
Instrument : GC-6
Sample Name: 1405744-006A S RR
Misc Info : TPH
Vial Number: 9



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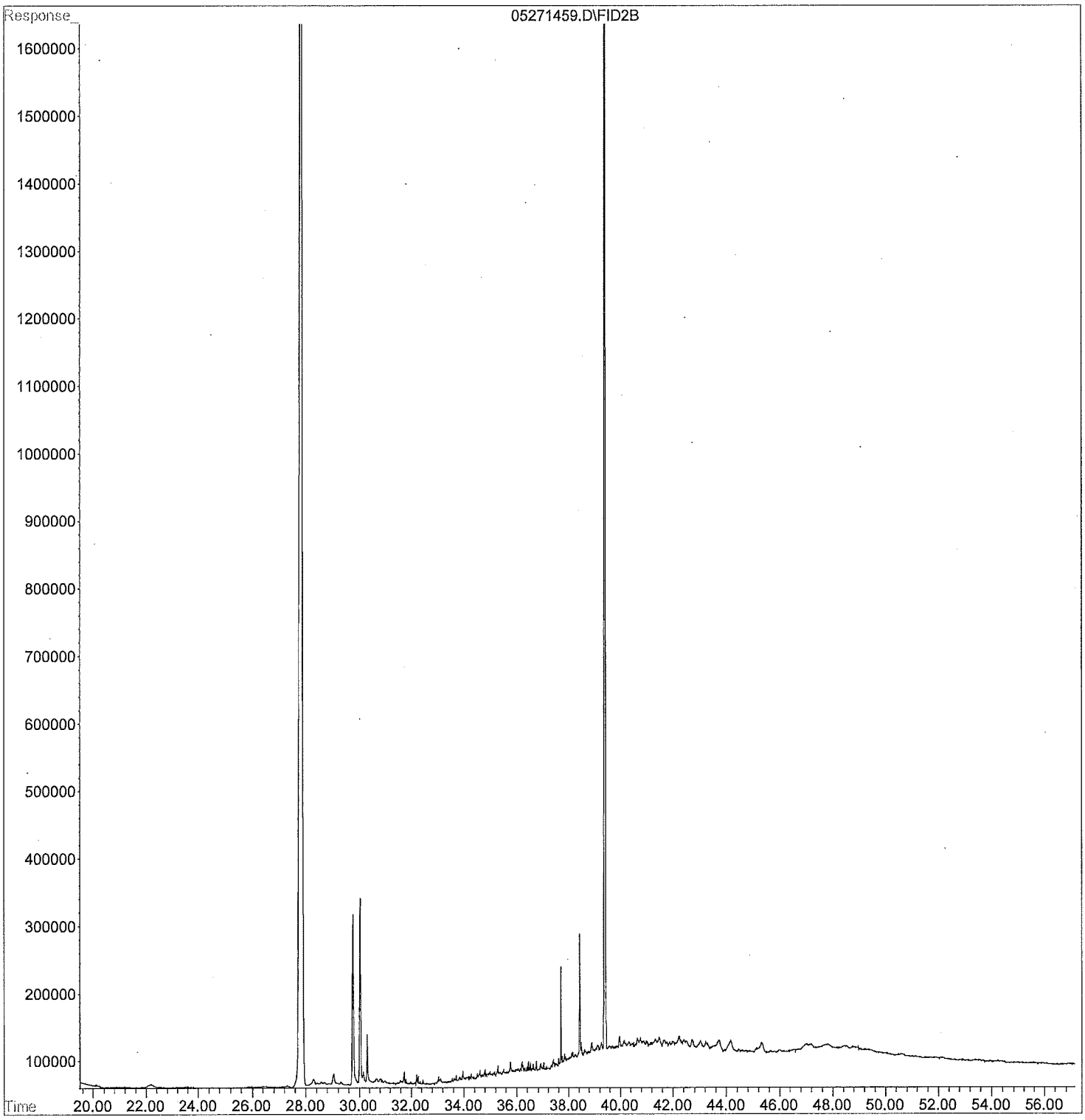
Operator : Mariel
Acquired : 29 May 2014 2:52 am using AcqMethod GC9AENT2.M
Instrument : GC-9
Sample Name: 1405744-008A S RR
Misc Info : TPH
Vial Number: 80



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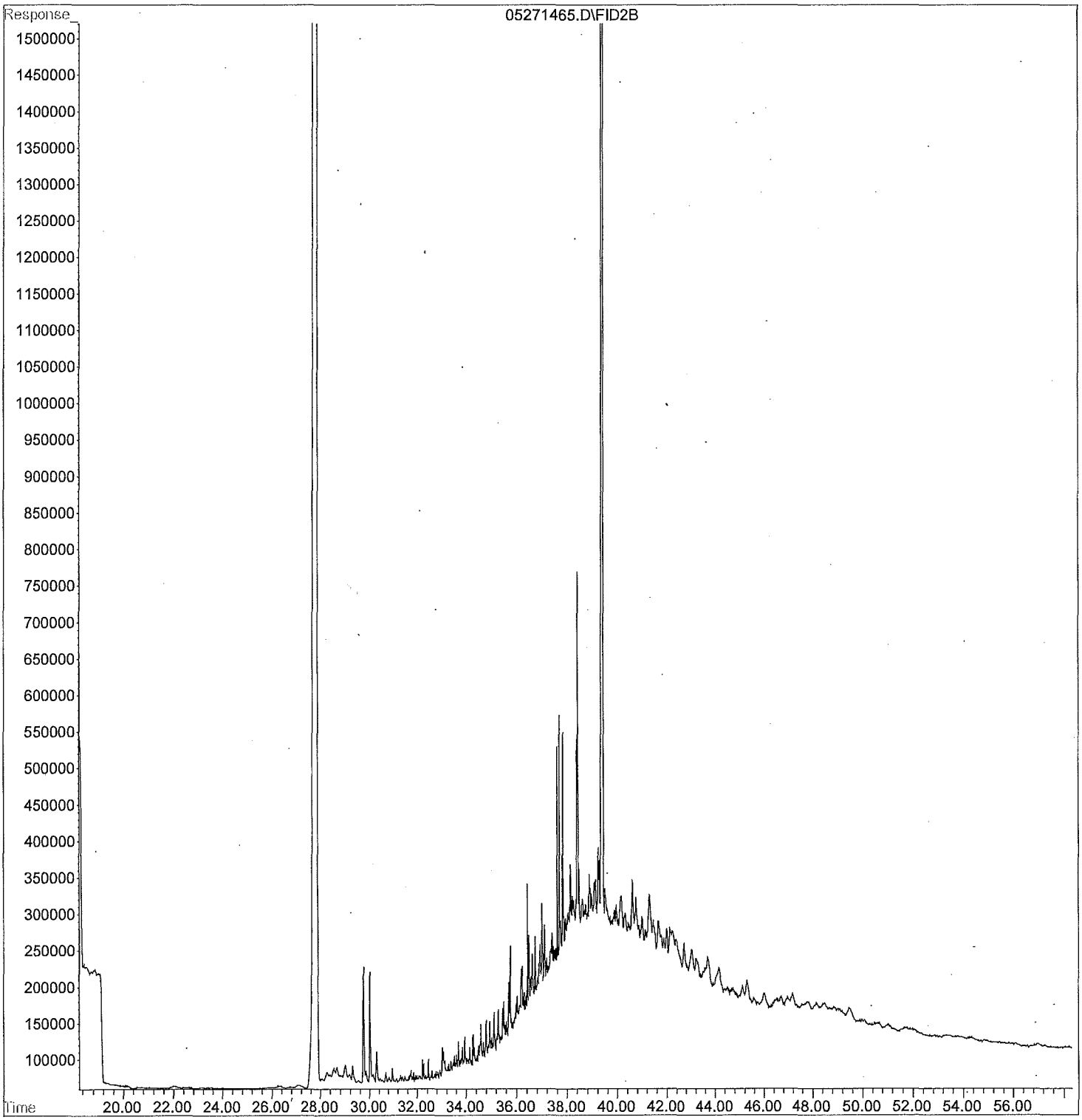
Operator : Mariel
Acquired : 29 May 2014 6:17 am using AcqMethod GC9AENT2.M
Instrument : GC-9
Sample Name: 1405744-009A S
Misc Info : TPH
Vial Number: 83



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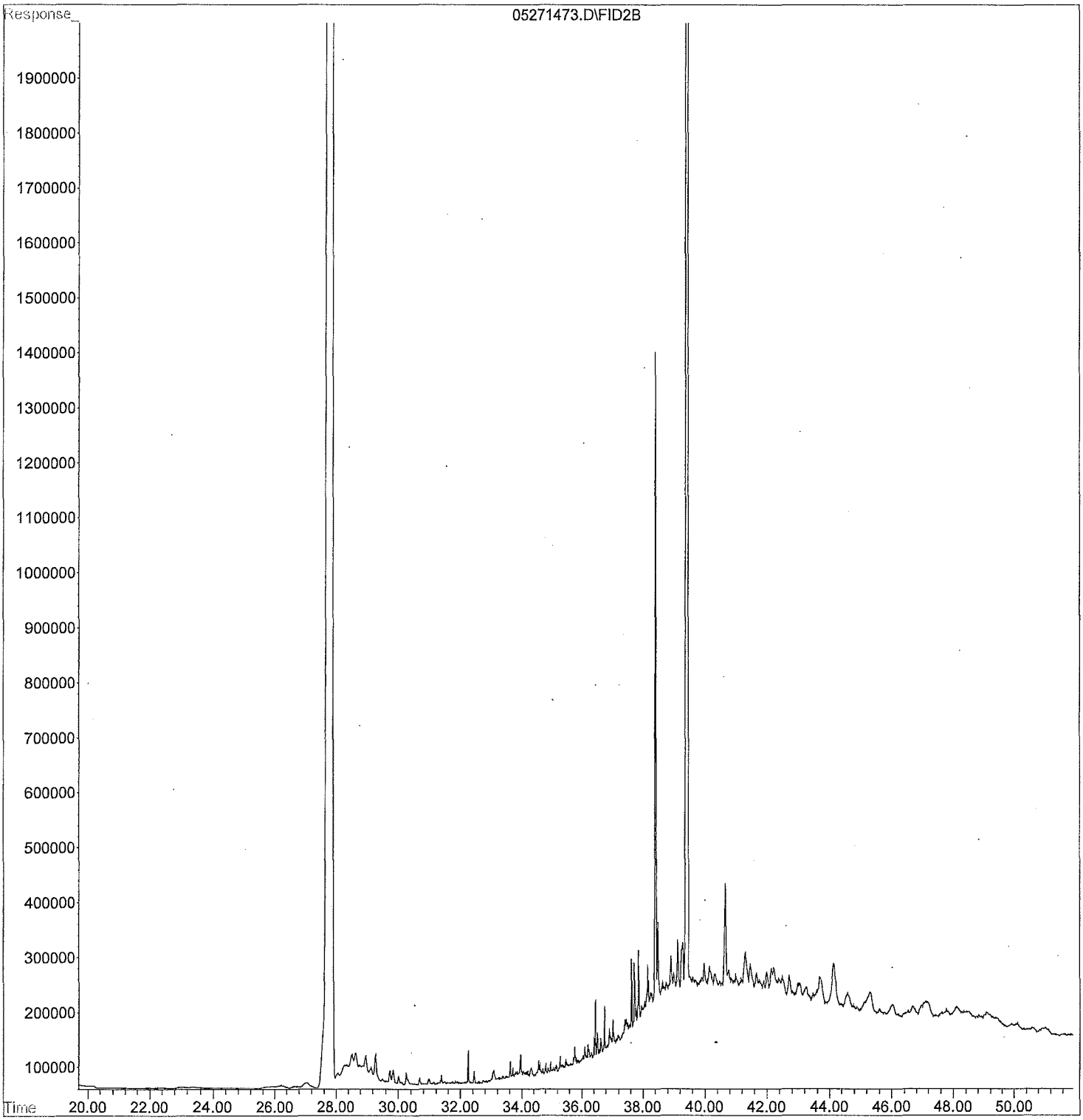
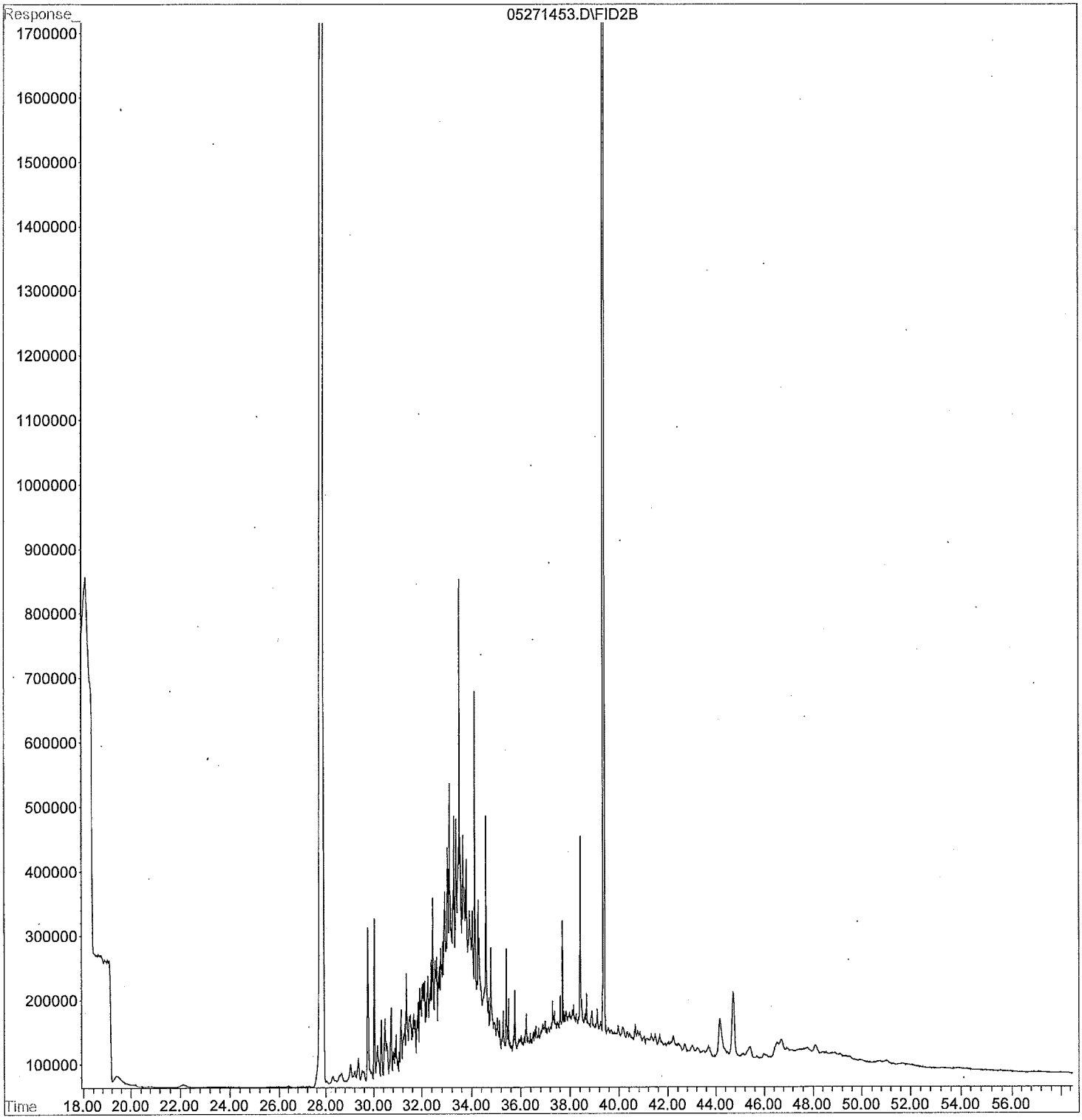
Operator : Mariel
Acquired : 29 May 2014 10:51 am using AcqMethod GC9AENT2.M
Instrument : GC-9
Sample Name: 1405744-011A S
Misc Info : TPH
Vial Number: 87



File : D:\HPCHEM\GC9\DATAB\05271453.D
Operator : Mariel
Acquired : 28 May 2014 11:26 pm using AcqMethod GC9AENT2.M
Instrument : GC-9
Sample Name: 1405744-012A S
Misc Info : TPH
Vial Number: 77

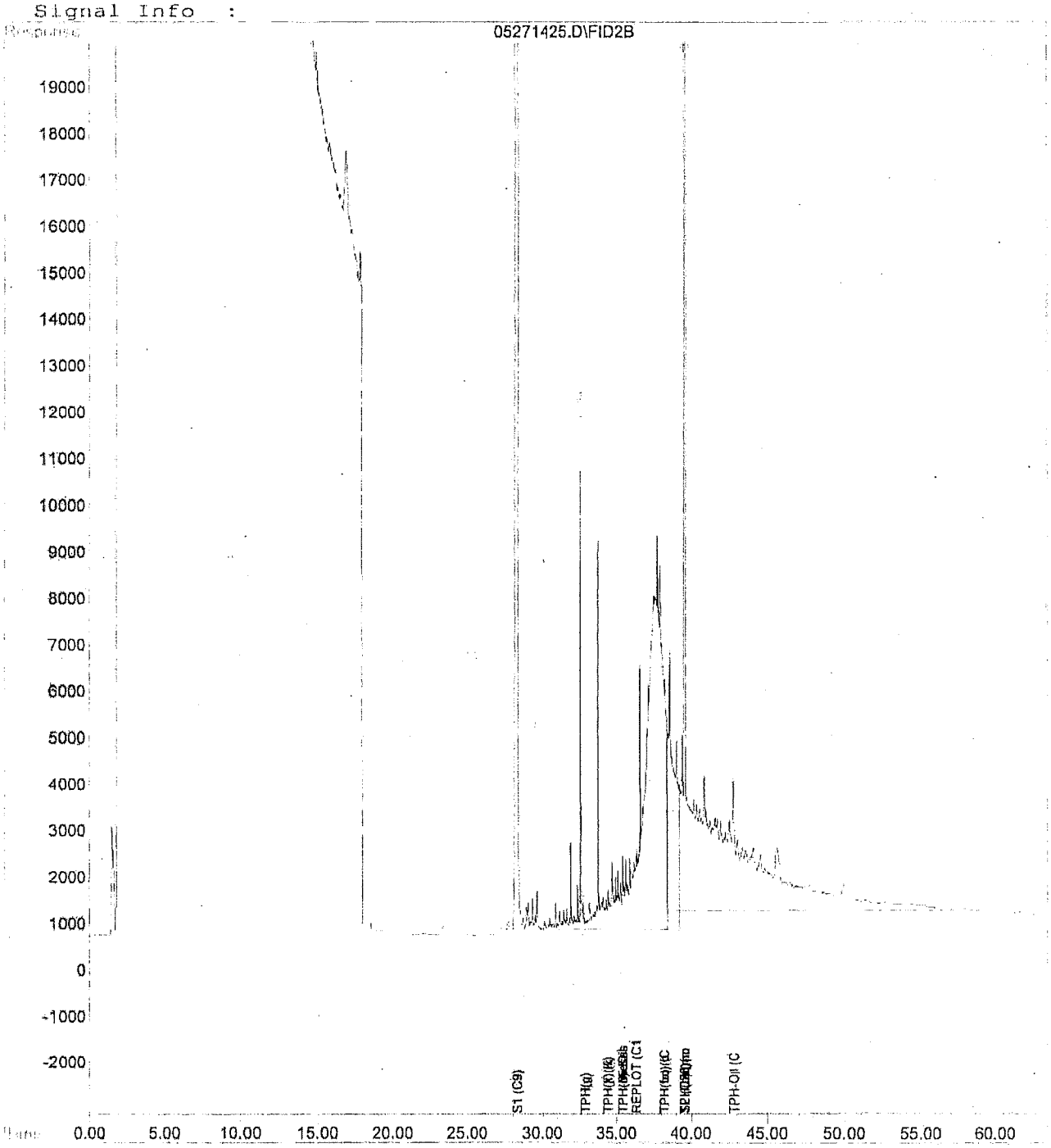


Quantitation Report (Not Reviewed)

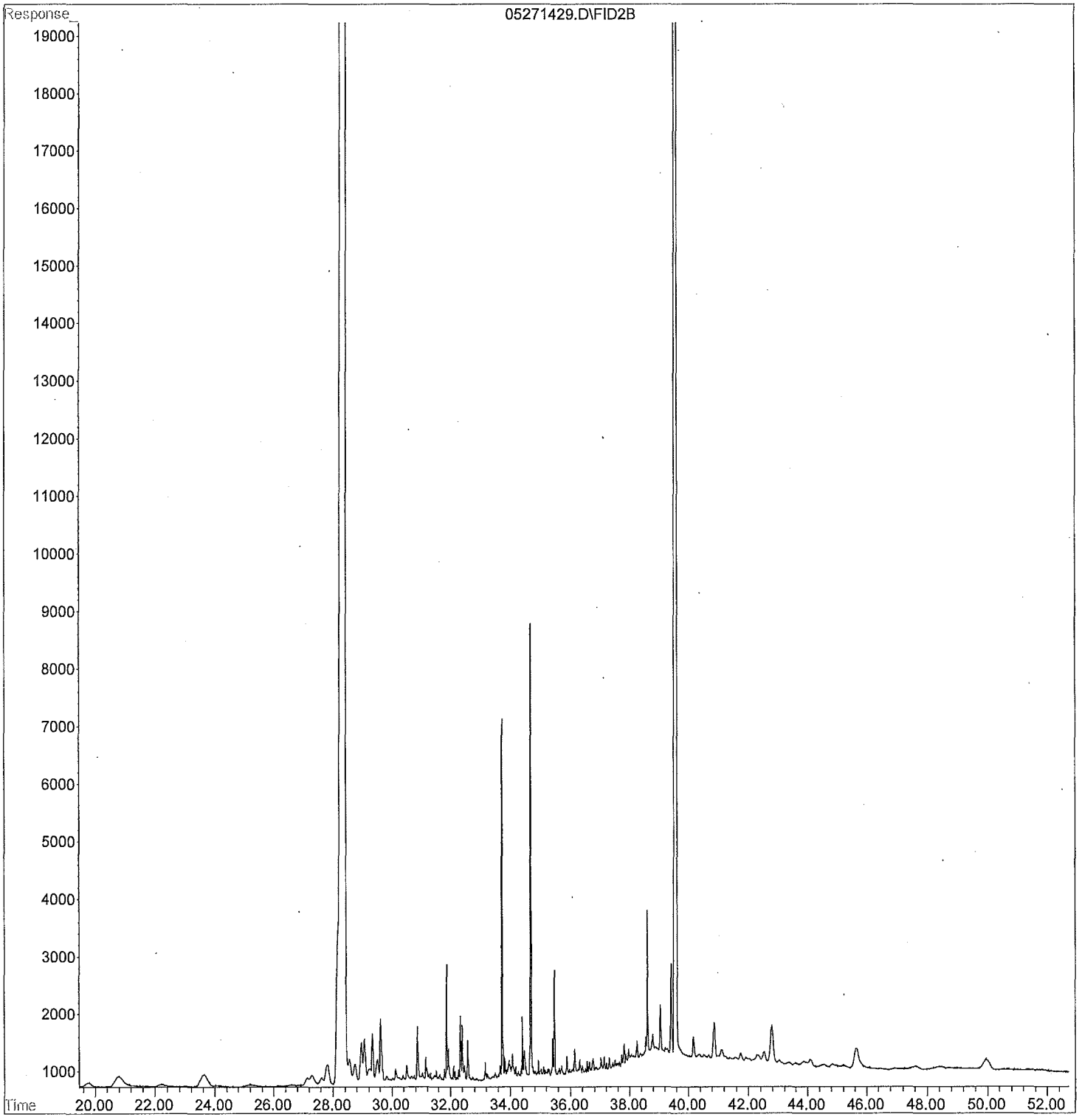
Data File : D:\HPCHEM\GC6\DATAB\05271425.D Vial: 63
Acq On : 28 May 2014 12:23 am Operator: Mariel
Sample : 1405744-013A W RR Inst : GC-6
Misc : TPH Multiplr: 1.00
IntFile : EVENTS.E
Quant Time: May 28 11:09 2014 Quant Results File: GC6BE.RES

Quant Method : D:\HPCHEM\GC6\METHODS\GC6BE.M (Chemstation Integrator)
Title : GC-2B
Last Update : Sun May 18 13:56:07 2014
Response via : Multiple Level Calibration
DataAcq Meth : GC6AF.M

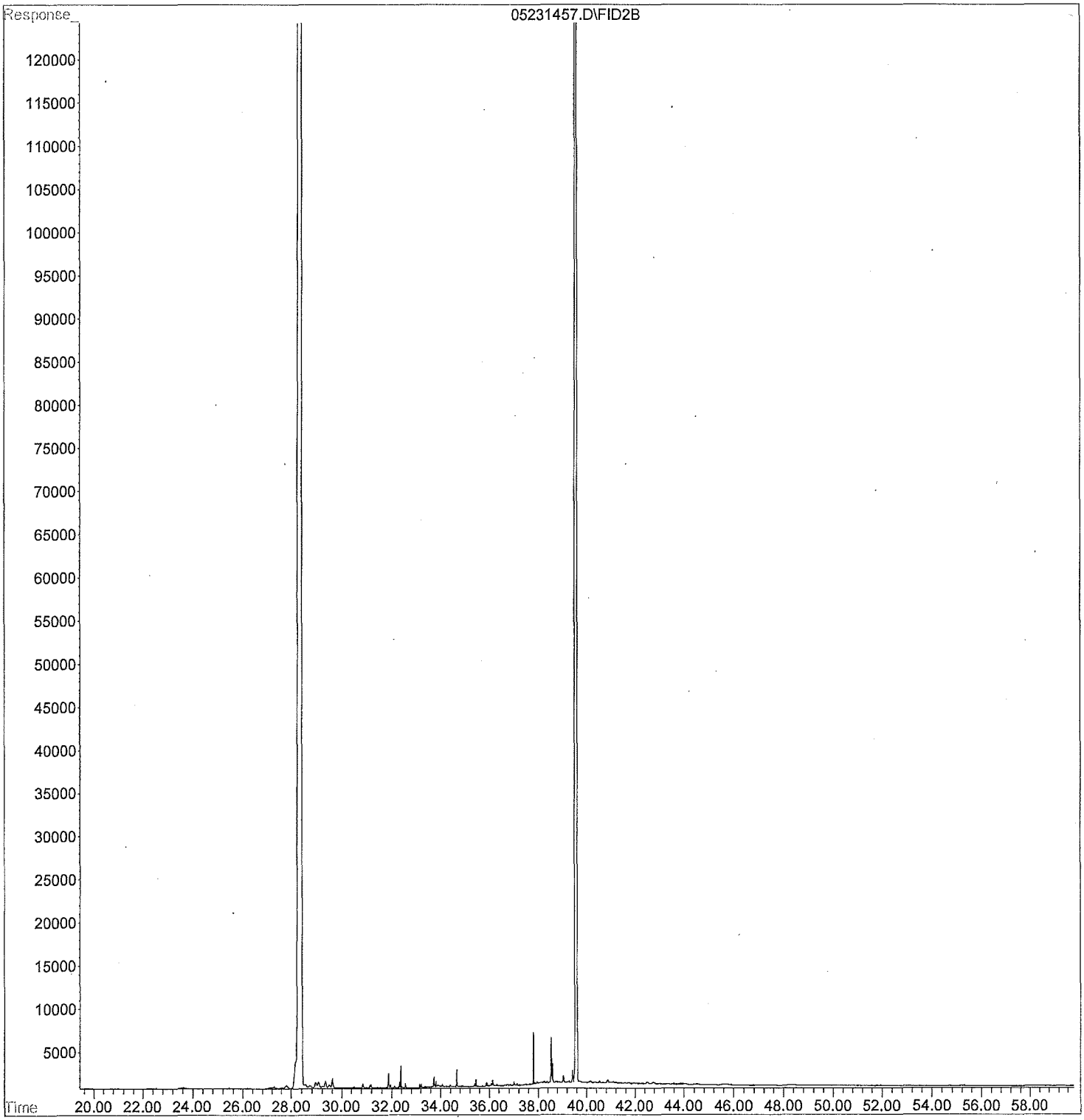
Volume Inj. :
Signal Phase :
Signal Info :



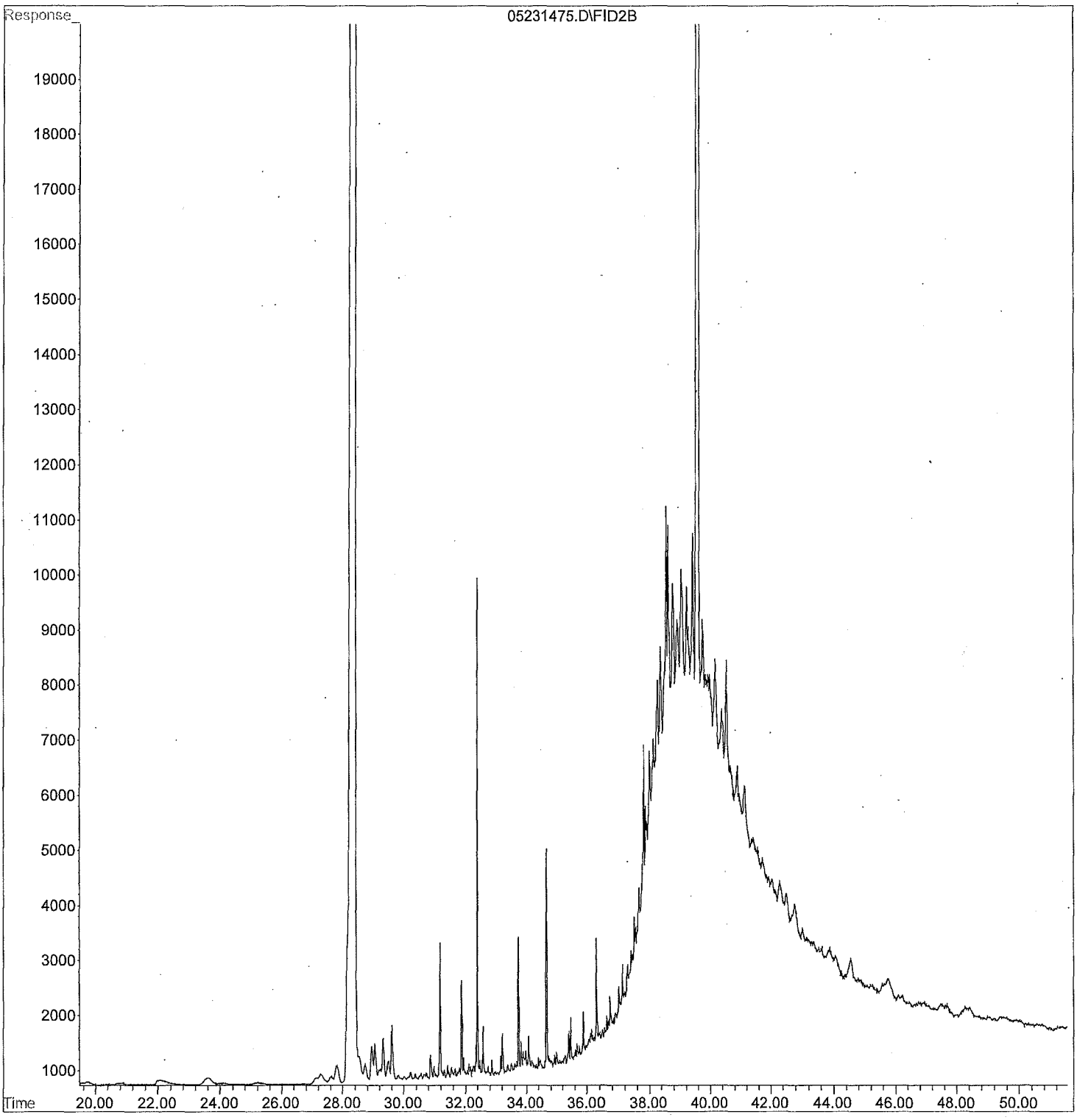
File : D:\HPCHEM\GC6\DATAB\05271429.D
Operator : Mariel
Acquired : 28 May 2014 2:47 am using AcqMethod GC6AF.M
Instrument : GC-6
Sample Name: 1405744-014C W RR
Misc Info : TPH
Vial Number: 65



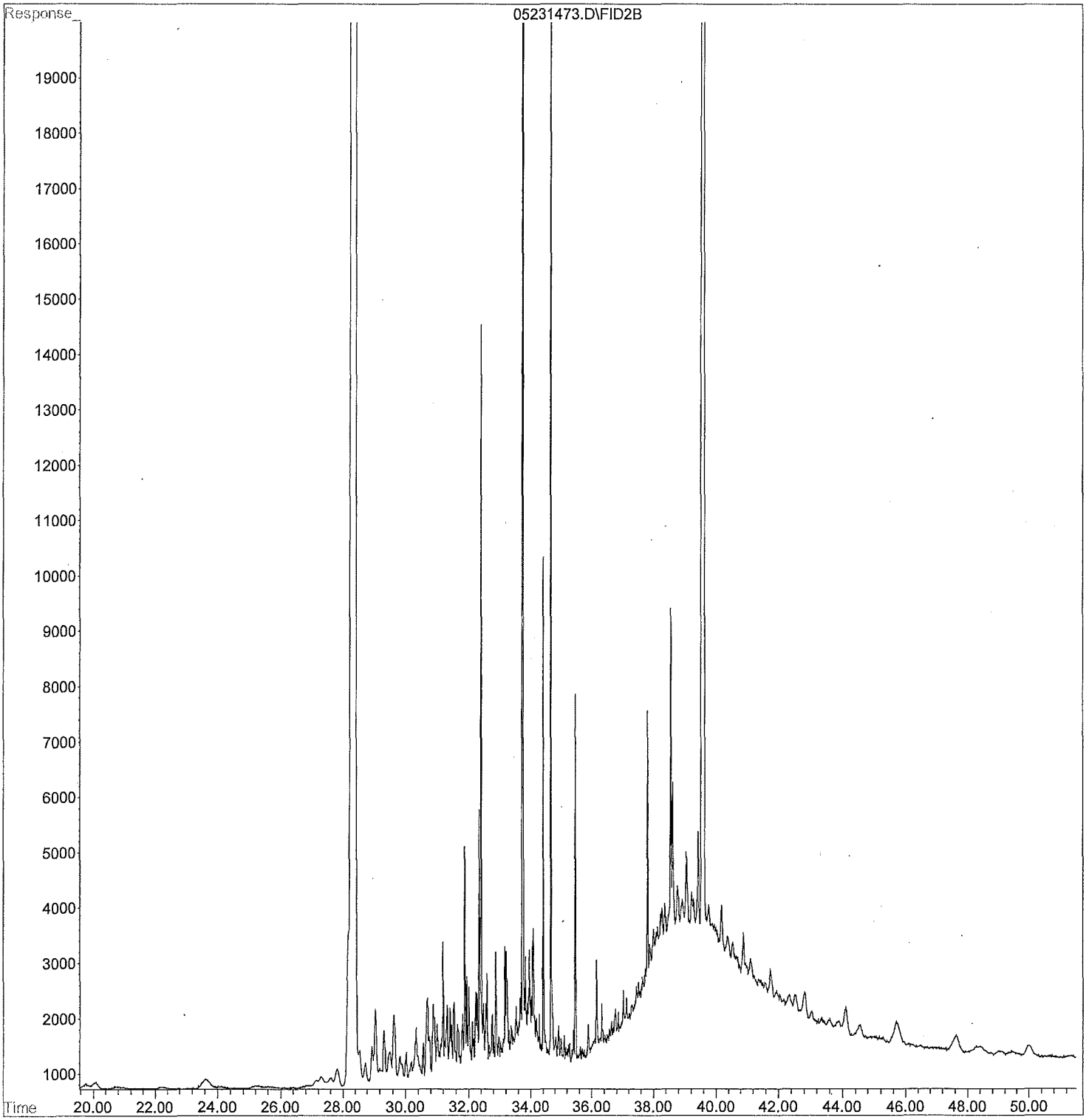
File : D:\HPCHEM\GC6\DATAB\05231457.D
Operator : Mariel
Acquired : 25 May 2014 4:19 pm using AcqMethod GC6AF.M
Instrument : GC-6
Sample Name: 1405744-015C W FF
Misc Info : TPHSG
Vial Number: 79



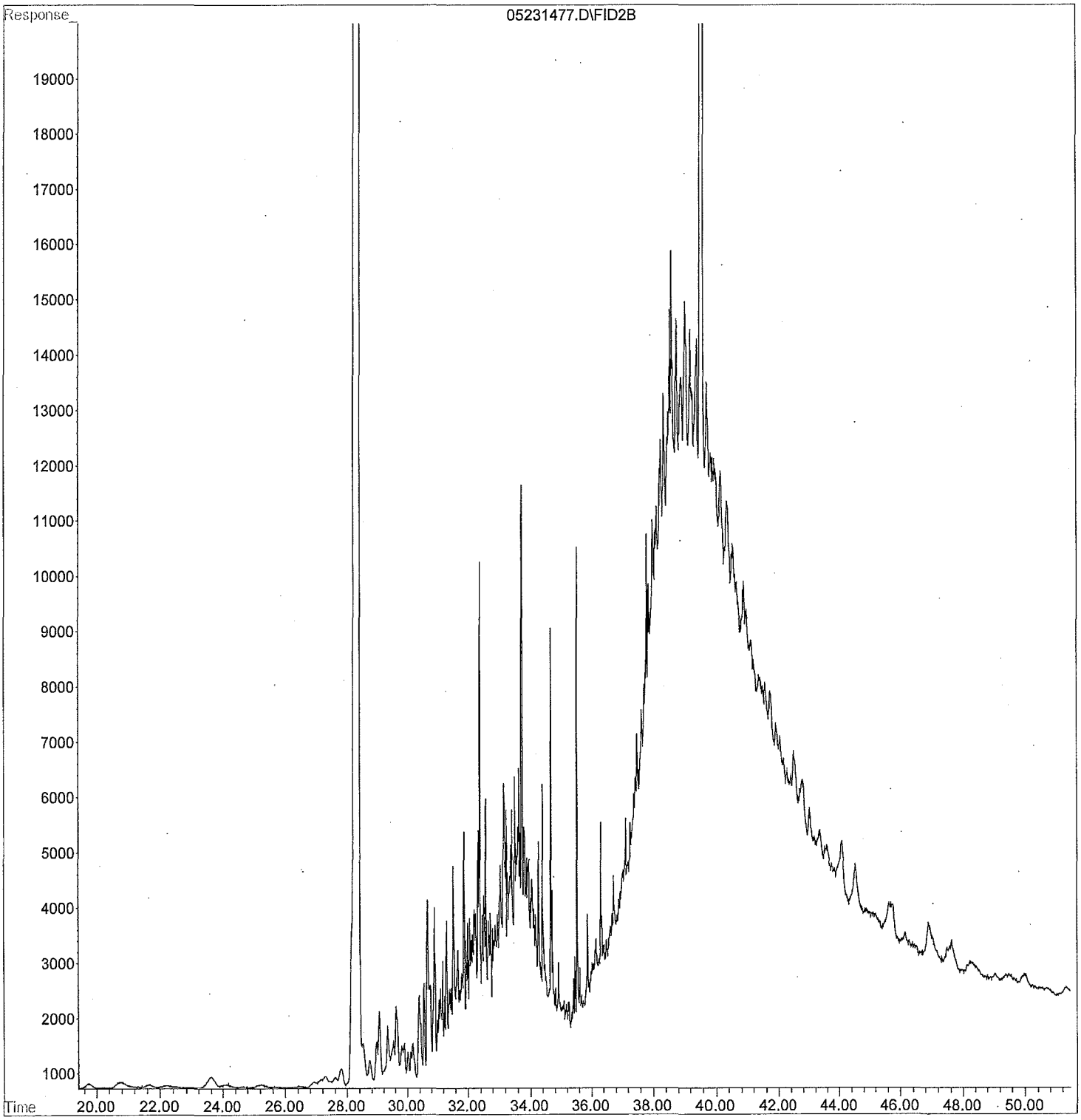
File : D:\HPCHEM\GC6\DATAB\05231475.D
Operator : Mariel
Acquired : 26 May 2014 3:29 am using AcqMethod GC6AF.M
Instrument : GC-6
Sample Name: 1405744-016C W
Misc Info : TPHSG
Vial Number: 88



File : D:\HPCHEM\GC6\DATAB\05231473.D
Operator : Mariel
Acquired : 26 May 2014 2:16 am using AcqMethod GC6AF.M
Instrument : GC-6
Sample Name: 1405744-017C W FF
Misc Info : TPHSG
Vial Number: 87



File : D:\HPCHEM\GC6\DATAB\05231477.D
Operator : Mariel
Acquired : 26 May 2014 4:41 am using AcqMethod GC6AF.M
Instrument : GC-6
Sample Name: 1405744-018C W FF
Misc Info : TPHSG
Vial Number: 89



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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/20/14	**BatchID:**	90628
Date Analyzed:	5/20/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90628 1405773-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0403	0.0050	0.050	-	80.6	70-130
Benzene	ND	0.0449	0.0050	0.050	-	89.8	70-130
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	0.175	0.050	0.20	-	87.6	70-130
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0450	0.0050	0.050	-	90.1	70-130
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0454	0.0040	0.050	-	90.8	70-130
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0550	0.0040	0.050	-	110	70-130
1,1-Dichloroethene	ND	0.0467	0.0050	0.050	-	93.4	70-130
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-

(Cont.)

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/20/14	**BatchID:**	90628
Date Analyzed:	5/20/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90628 1405773-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	0.0409	0.0050	0.050	-	81.8	70-130
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0427	0.0050	0.050	-	85.4	70-130
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0467	0.0050	0.050	-	93.4	70-130
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	0.0472	0.0050	0.050	-	94.3	70-130
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0474	0.0050	0.050	-	94.9	70-130
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	0.130	0.188		0.18	104	108	70-130
Toluene-d8	0.138	0.191		0.18	111	109	70-130
4-BFB	0.0115	0.0155		0.018	92	88	70-130

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/20/14	**BatchID:**	90628
Date Analyzed:	5/20/14	**Extraction Method:**	SW5030B
Instrument:	GC10	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90628 1405773-001AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	0.0386	0.0381	0.050	ND	77.2	76.2	70-130	1.30	30
Benzene	0.0408	0.0406	0.050	ND	81.6	81.3	70-130	0.374	30
t-Butyl alcohol (TBA)	0.173	0.168	0.20	ND	86.6	84.1	70-130	2.94	30
Chlorobenzene	0.0407	0.0404	0.050	ND	81.4	80.9	70-130	0.644	30
1,2-Dibromoethane (EDB)	0.0423	0.0401	0.050	ND	84.5	80.3	70-130	5.16	30
1,2-Dichloroethane (1,2-DCA)	0.0501	0.0486	0.050	ND	100	97.3	70-130	2.95	30
1,1-Dichloroethene	0.0413	0.0405	0.050	ND	82.7	80.9	70-130	2.14	30
Diisopropyl ether (DIPE)	0.0379	0.0375	0.050	ND	75.9	74.9	70-130	1.24	30
Ethyl tert-butyl ether (ETBE)	0.0402	0.0397	0.050	ND	80.4	79.4	70-130	1.23	30
Methyl-t-butyl ether (MTBE)	0.0447	0.0434	0.050	ND	89.4	86.9	70-130	2.83	30
Toluene	0.0423	0.0421	0.050	ND	84.6	84.3	70-130	0.384	30
Trichloroethene	0.0430	0.0417	0.050	ND	86.1	83.3	70-130	3.23	30
Surrogate Recovery									
Dibromofluoromethane	0.185	0.180	0.18		106	103	70-130	2.64	30
Toluene-d8	0.186	0.183	0.18		107	105	70-130	1.84	30
4-BFB	0.0154	0.0152	0.018		88	87	70-130	1.59	30

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/23/14	**BatchID:**	90789
Date Analyzed:	5/22/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90789 1405738-001EMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	19.7	0.50	20	-	98.4	70-130
Benzene	ND	19.7	0.50	20	-	98.6	70-130
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	3.20	70.1	2.0	80	-	87.6	70-130
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	19.6	0.50	20	-	98.2	70-130
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	19.9	0.50	20	-	99.3	70-130
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	18.3	0.50	20	-	91.5	70-130
1,1-Dichloroethene	ND	18.7	0.50	20	-	93.4	70-130
cis-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.50	-	-	-	-
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/23/14	**BatchID:**	90789
Date Analyzed:	5/22/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90789 1405738-001EMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Diisopropyl ether (DIPE)	ND	19.9	0.50	20	-	99.3	70-130
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	19.5	0.50	20	-	97.4	70-130
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	19.0	0.50	20	-	95.2	70-130
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	20.0	0.50	20	-	100	70-130
1,2,3-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.50	-	-	-	-
Trichloroethene	ND	19.2	0.50	20	-	96	70-130
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-
Surrogate Recovery							
Dibromofluoromethane	27.7	48.2		45	111	107	70-130
Toluene-d8	28.3	49.4		45	113	110	70-130
4-BFB	2.45	4.60		4.5	98	102	70-130

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/23/14	**BatchID:**	90789
Date Analyzed:	5/22/14	**Extraction Method:**	SW5030B
Instrument:	GC28	**Analytical Method:**	SW8260B
Matrix:	Water	**Unit:**	µg/L
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90789 1405738-001EMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
tert-Amyl methyl ether (TAME)	21.6	22.2	20	ND	108	111	70-130	2.73	20
Benzene	20.2	20.6	20	ND	101	103	70-130	2.03	20
t-Butyl alcohol (TBA)	79.0	86.8	80	ND	95.9	106	70-130	9.42	20
Chlorobenzene	19.8	20.9	20	ND	99	104	70-130	5.35	20
1,2-Dibromoethane (EDB)	21.3	22.4	20	ND	107	112	70-130	4.92	20
1,2-Dichloroethane (1,2-DCA)	19.6	20.1	20	ND	98	100	70-130	2.42	20
1,1-Dichloroethene	18.2	20.1	20	ND	90.8	100	70-130	10.1	20
Diisopropyl ether (DIPE)	21.0	21.7	20	ND	105	109	70-130	3.17	20
Ethyl tert-butyl ether (ETBE)	20.9	21.7	20	ND	105	108	70-130	3.58	20
Methyl-t-butyl ether (MTBE)	20.5	21.7	20	ND	102	109	70-130	5.89	20
Toluene	20.0	21.2	20	ND	100	106	70-130	5.97	20
Trichloroethene	19.0	20.2	20	ND	95.1	101	70-130	6.14	20
Surrogate Recovery									
Dibromofluoromethane	48.9	50.5	45		109	112	70-130	3.23	20
Toluene-d8	49.9	51.2	45		111	114	70-130	2.55	20
4-BFB	4.50	4.72	4.5		100	105	70-130	4.88	20

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/19/14	**BatchID:**	90605
Date Analyzed:	5/21/14	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90605 1405779-002AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.687	0.40	0.60	-	114	70-130
MTBE	ND	0.0813	0.050	0.10	-	81.3	70-130
Benzene	ND	0.115	0.0050	0.10	-	115	70-130
Toluene	ND	0.112	0.0050	0.10	-	112	70-130
Ethylbenzene	ND	0.117	0.0050	0.10	-	117	70-130
Xylenes	ND	0.359	0.0050	0.30	-	120	70-130
Surrogate Recovery							
2-Fluorotoluene	0.120	0.108		0.10	120	108	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR	0	ND<4	NR	NR	-	NR	
MTBE	NR	NR	0	ND<0.5	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Toluene	NR	NR	0	0.17	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Xylenes	NR	NR	0	ND<0.05	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR	0		NR	NR	-	NR	

(Cont.)

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/20/14	**BatchID:**	90640
Date Analyzed:	5/21/14	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90640 1405780-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.590	0.40	0.60	-	98.4	70-130
MTBE	ND	0.0863	0.050	0.10	-	86.3	70-130
Benzene	ND	0.114	0.0050	0.10	-	114	70-130
Toluene	ND	0.110	0.0050	0.10	-	110	70-130
Ethylbenzene	ND	0.118	0.0050	0.10	-	118	70-130
Xylenes	ND	0.360	0.0050	0.30	-	120	70-130
Surrogate Recovery							
2-Fluorotoluene	0.103	0.114		0.10	103	113	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR	0	ND<4	NR	NR	-	NR	
MTBE	NR	NR	0	ND<0.5	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Toluene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Xylenes	NR	NR	0	ND<0.05	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR	0		NR	NR	-	NR	

(Cont.)

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/22/14	**BatchID:**	90717
Date Analyzed:	5/21/14	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Water	**Unit:**	µg/L
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90717 1405799-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	58.6	40	60	-	97.7	70-130
MTBE	ND	9.76	5.0	10	-	97.6	70-130
Benzene	ND	8.84	0.50	10	-	88.4	70-130
Toluene	ND	8.83	0.50	10	-	88.3	70-130
Ethylbenzene	ND	8.86	0.50	10	-	88.6	70-130
Xylenes	ND	26.8	0.50	30	-	89.5	70-130
Surrogate Recovery							
aaa-TFT	9.78	9.38		10	98	94	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	62.9	62.2	60	ND	105	104	70-130	1.11	20
MTBE	10.1	10.5	10	ND	101	105	70-130	3.77	20
Benzene	9.34	9.84	10	ND	93.4	98.4	70-130	5.23	20
Toluene	9.34	9.71	10	ND	93.4	97.1	70-130	3.91	20
Ethylbenzene	9.45	9.77	10	ND	94.5	97.7	70-130	3.34	20
Xylenes	28.6	29.6	30	ND	95.4	98.7	70-130	3.33	20
Surrogate Recovery									
aaa-TFT	9.59	9.68	10		96	97	70-130	0.946	20

(Cont.)

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/22/14	**BatchID:**	90731
Date Analyzed:	5/23/14	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90731 1405872-001AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.609	0.40	0.60	-	101	70-130
MTBE	ND	0.0905	0.050	0.10	-	90.5	70-130
Benzene	ND	0.115	0.0050	0.10	-	115	70-130
Toluene	ND	0.112	0.0050	0.10	-	112	70-130
Ethylbenzene	ND	0.118	0.0050	0.10	-	118	70-130
Xylenes	ND	0.360	0.0050	0.30	-	120	70-130
Surrogate Recovery							
2-Fluorotoluene	0.107	0.113		0.10	107	113	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	NR	NR	0	34	NR	NR	-	NR	
MTBE	NR	NR	0	ND<0.5	NR	NR	-	NR	
Benzene	NR	NR	0	ND<0.05	NR	NR	-	NR	
Toluene	NR	NR	0	0.17	NR	NR	-	NR	
Ethylbenzene	NR	NR	0	0.45	NR	NR	-	NR	
Xylenes	NR	NR	0	ND<0.05	NR	NR	-	NR	
Surrogate Recovery									
2-Fluorotoluene	NR	NR	0		NR	NR	-	NR	

(Cont.)

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/22/14	**BatchID:**	90774
Date Analyzed:	5/23/14	**Extraction Method:**	SW5030B
Instrument:	GC7	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90774 1405590-002AMS/MSD

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH(btex)	ND	0.609	0.40	0.60	-	102	70-130
MTBE	ND	0.0838	0.050	0.10	-	83.8	70-130
Benzene	ND	0.0991	0.0050	0.10	-	99.1	70-130
Toluene	ND	0.0986	0.0050	0.10	-	98.6	70-130
Ethylbenzene	ND	0.109	0.0050	0.10	-	109	70-130
Xylenes	ND	0.335	0.0050	0.30	-	112	70-130
Surrogate Recovery							
2-Fluorotoluene	0.0970	0.106		0.10	97	106	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH(btex)	0.545	0.624	0.60	ND	90.8	104	70-130	13.6	20
MTBE	0.0885	0.0846	0.10	ND	88.5	84.6	70-130	4.43	20
Benzene	0.101	0.0962	0.10	ND	101	96.2	70-130	5.04	20
Toluene	0.103	0.0978	0.10	ND	103	97.8	70-130	5.01	20
Ethylbenzene	0.103	0.0999	0.10	ND	103	99.9	70-130	3.39	20
Xylenes	0.323	0.301	0.30	ND	108	100	70-130	7.09	20
Surrogate Recovery									
2-Fluorotoluene	0.0957	0.0917	0.10		96	92	70-130	4.26	20

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/21/14	**BatchID:**	90711
Date Analyzed:	5/22/14	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90711 1405729-025AMS/MSD

QC Summary Report for SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	57.4	0.25	50	-	115	75-125
Chromium	ND	53.2	0.50	50	-	106	75-125
Lead	ND	57.3	0.50	50	-	115	75-125
Nickel	ND	54.0	0.50	50	-	108	75-125
Zinc	ND	554	5.0	500	-	111	75-125
Surrogate Recovery							
Tb 350.917	569	569		500	114	114	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	61.8	57.8	50	ND	124	116	75-125	6.72	20
Chromium	NR	NR	50	54.00	NR	NR	75-125	NR	20
Lead	68.6	63.6	50	5.815	126,F1	116	75-125	7.59	20
Nickel	NR	NR	50	51.62	NR	NR	75-125	NR	20
Zinc	652	599	500	52.54	120	109	75-125	8.47	20
Surrogate Recovery									
Tb 350.917	625	583	500		125	117	70-130	6.93	20

(Cont.)

CDPH ELAP 1644 ♦ NELAP 4033ORELAP

QA/QC Officer

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/22/14	**BatchID:**	90730
Date Analyzed:	5/23/14	**Extraction Method:**	SW3050B
Instrument:	ICP-MS1	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90730 1405844-001AMS/MSD

QC Summary Report for SW6020

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	51.5	0.25	50	-	103	75-125
Chromium	ND	48.7	0.50	50	-	97.4	75-125
Lead	ND	50.4	0.50	50	-	101	75-125
Nickel	ND	48.8	0.50	50	-	97.7	75-125
Zinc	ND	510	5.0	500	-	102	75-125
Surrogate Recovery							
Tb 350.917	576	547		500	115	109	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	58.0	55.6	50	ND	116	111	75-125	4.17	20
Chromium	82.7	81.3	50	26.86	112	109	75-125	1.72	20
Lead	59.1	56.7	50	2.551	113	108	75-125	4.18	20
Nickel	71.5	73.0	50	18.71	106	109	75-125	1.98	20
Zinc	578	560	500	18.20	112	108	75-125	3.13	20
Surrogate Recovery									
Tb 350.917	595	574	500		119	115	70-130	3.51	20

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/20/14	**BatchID:**	90624
Date Analyzed:	5/21/14	**Extraction Method:**	E200.8
Instrument:	ICP-MS1	**Analytical Method:**	E200.8
Matrix:	Water	**Unit:**	µg/L
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90624 1405782-001AMS/MSD

QC Summary Report for E200.8

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Cadmium	ND	50.6	0.25	50	-	101	85-115
Chromium	ND	49.1	0.50	50	-	98.1	85-115
Lead	ND	50.8	0.50	50	-	102	85-115
Nickel	ND	47.6	0.50	50	-	95.3	85-115
Zinc	ND	518	5.0	500	-	104	85-115
Surrogate Recovery							
Tb 350.917	781	814		750	104	109	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Cadmium	NR	NR	0	ND<5	NR	NR	-	NR	
Chromium	NR	NR	0	ND<10	NR	NR	-	NR	
Lead	NR	NR	0	ND<10	NR	NR	-	NR	
Nickel	NR	NR	0	23	NR	NR	-	NR	
Zinc	NR	NR	0	1200	NR	NR	-	NR	
Surrogate Recovery									
Tb 350.917	NR	NR	0		NR	NR	-	NR	

(Cont.)

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QA/QC Officer

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Quality Control Report

Client:	ESA	**WorkOrder:**	1405744
Date Prepared:	5/20/14	**BatchID:**	90633
Date Analyzed:	5/21/14	**Extraction Method:**	SW3550B/3630C
Instrument:	GC11A	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	#120832-4E; SFO Plot 700	**Sample ID:**	MB/LCS-90633 1405744-012AMS/MSD

QC Summary Report for SW8015B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
TPH-Diesel (C10-C23)	ND	44.0	1.0	40	-	110	70-130
Surrogate Recovery							
C9	31.3	30.6		25	125	123	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	102	105	40	52.15	126,F1	132,F1	70-130	2.38	30
Surrogate Recovery									
C9	29.4	29.8	25		118	119	70-130	1.27	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405744 **ClientCode: ESAP**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☒ EQuIS ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Michael G. Burns
ESA
1425 N. McDowell Blvd. Ste.200
Petaluma, CA 94954
(707) 795-0900 FAX: (707) 795-0902

Email: MBurns@esassoc.com
cc/3rd Party:
PO:
ProjectNo: #120832-4E; SFO Plot 700

Bill to:
Justin Gragg
ESA
1425 N. McDowell Blvd. Ste.200
Petaluma, CA 94954

Requested TAT: 5 days

Date Received: 05/19/2014
Date Printed: 05/21/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1405744-001	B-1-1	Soil	5/19/2014	☐	A		A		A							
1405744-002	B-1-7	Soil	5/19/2014	☐	A		A		A							
1405744-003	B-2-2	Soil	5/19/2014	☐	A		A		A							
1405744-004	B-2-7	Soil	5/19/2014	☐	A		A		A							
1405744-005	B-3-2.5	Soil	5/19/2014	☐	A		A		A							
1405744-006	B-3-10	Soil	5/19/2014	☐	A		A		A							
1405744-007	B-4-2	Soil	5/19/2014	☐	A		A		A							
1405744-008	B-4-4	Soil	5/19/2014	☐	A		A		A							
1405744-009	B-5-2	Soil	5/19/2014	☐	A		A		A							
1405744-010	B-5-3.5	Soil	5/19/2014	☐	A		A		A							
1405744-011	B-6-2	Soil	5/19/2014	☐	A		A		A							
1405744-012	B-6-4	Soil	5/19/2014	☐	A		A		A							
1405744-013	B-1	Water	5/19/2014	☐						A						
1405744-014	B-2	Water	5/19/2014	☐		A		B		C						
1405744-015	B-3	Water	5/19/2014	☐		A		B		C						
1405744-016	B-4	Water	5/19/2014	☐		A		B		C						

Test Legend:

1	8260B_S	2	8260B_W	3	LUFTMS_S	4	LUFTMS_W	5	TPH(FF)WSG_S
6	TPH(FF)WSG_W	7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014C, 015C, 016C, 017C, 018C contain testgroup.

Prepared by: Shana Carter

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1405744 **ClientCode: ESAP**

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Report to:
Michael G. Burns
ESA
1425 N. McDowell Blvd. Ste.200
Petaluma, CA 94954
(707) 795-0900 FAX: (707) 795-0902

Email: MBurns@esassoc.com
cc/3rd Party:
PO:
ProjectNo: #120832-4E; SFO Plot 700

Bill to:
Justin Gragg
ESA
1425 N. McDowell Blvd. Ste.200
Petaluma, CA 94954

Requested TAT: 5 days
Date Received: 05/19/2014
Date Printed: 05/21/2014

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1405744-017	B-5	Water	5/19/2014	☐		A		B		C						
1405744-018	B-6	Water	5/19/2014	☐		A		B		C						

Test Legend:

1	8260B_S	2	8260B_W	3	LUFTMS_S	4	LUFTMS_W	5	TPH(FF)WSG_S
6	TPH(FF)WSG_W	7		8		9		10	
11		12							

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A, 013A, 014C, 015C, 016C, 017C, 018C contain testgroup.

Prepared by: Shana Carter

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
"When Quality Counts"

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

WORK ORDER SUMMARY

Client Name: ESA
Project: #120832-4E; SFO Plot 700
Comments:

QC Level: LEVEL 2
Client Contact: Michael G. Burns
Contact's Email: MBurns@esassoc.com

Work Order: 1405744
Date Received: 5/19/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405744-001A	B-1-1	Soil	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-002A	B-1-7	Soil	SW6020 (LUFT)	1	Acetate Liner	☐	5/19/2014	5 days		☐	
			TPH (Fuel Fingerprint) w/ S.G. Clean-Up			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-003A	B-2-2	Soil	SW6020 (LUFT)	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			TPH (Fuel Fingerprint) w/ S.G. Clean-Up			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-004A	B-2-7	Soil	SW6020 (LUFT)	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			TPH (Fuel Fingerprint) w/ S.G. Clean-Up			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-005A	B-3-2.5	Soil	SW6020 (LUFT)	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			TPH (Fuel Fingerprint) w/ S.G. Clean-Up			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-006A	B-3-10	Soil	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

16OZ GJ = 16oz Glass Jar
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3
Acetate Liner = Acetate Liner
Stainless Tube =
VOA w/ HCl = 43mL VOA w/ HCl

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WORK ORDER SUMMARY

Client Name: ESA
Project: #120832-4E; SFO Plot 700
Comments:

QC Level: LEVEL 2
Client Contact: Michael G. Burns
Contact's Email: MBurns@esassoc.com

Work Order: 1405744
Date Received: 5/19/2014

☐WaterTrax ☐WriteOn ☐EDF ☐Excel ☐Fax ☐Email ☐HardCopy ☐ThirdParty ☐J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405744-006A	B-3-10	Soil	SW8260B (VOCs)	1	Stainless Tube	☐	5/19/2014	5 days		☐	
1405744-007A	B-4-2	Soil	SW6020 (LUFT)	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			TPH (Fuel Fingerprint) w/ S.G. Clean-Up			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-008A	B-4-4	Soil	SW6020 (LUFT)	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			TPH (Fuel Fingerprint) w/ S.G. Clean-Up			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-009A	B-5-2	Soil	SW6020 (LUFT)	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			TPH (Fuel Fingerprint) w/ S.G. Clean-Up			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-010A	B-5-3.5	Soil	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			SW6020 (LUFT)			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-011A	B-6-2	Soil	SW6020 (LUFT)	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			TPH (Fuel Fingerprint) w/ S.G. Clean-Up			☐		5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-012A	B-6-4	Soil	SW6020 (LUFT)	1	Stainless Tube	☐	5/19/2014	5 days		☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

16OZ GJ = 16oz Glass Jar
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3
Acetate Liner = Acetate Liner
Stainless Tube =
VOA w/ HCl = 43mL VOA w/ HCl

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WORK ORDER SUMMARY

Client Name: ESA
Project: #120832-4E; SFO Plot 700
Comments:

QC Level: LEVEL 2
Client Contact: Michael G. Burns
Contact's Email: MBurns@esassoc.com

Work Order: 1405744
Date Received: 5/19/2014

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405744-012A	B-6-4	Soil	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	Stainless Tube	☐	5/19/2014	5 days		☐	
			SW8260B (VOCs)			☐		5 days		☐	
1405744-013A	B-1	Water	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	16OZ GJ	☐	5/19/2014	5 days	Present	☐	
1405744-014A	B-2	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	5/19/2014	5 days	1%+	☐	
1405744-014B	B-2	Water	E200.8 (LUFT)	1	250mL HDPE w/ HNO3	☐	5/19/2014	5 days	1%+	☐	
1405744-014C	B-2	Water	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	16OZ GJ	☐	5/19/2014	5 days	1%+	☐	
1405744-015A	B-3	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	5/19/2014	5 days	1%+	☐	
1405744-015B	B-3	Water	E200.8 (LUFT)	1	250mL HDPE w/ HNO3	☐	5/19/2014	5 days	1%+	☐	
1405744-015C	B-3	Water	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	16OZ GJ	☐	5/19/2014	5 days	1%+	☐	
1405744-016A	B-4	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	5/19/2014	5 days	1%+	☐	
1405744-016B	B-4	Water	E200.8 (LUFT)	1	250mL HDPE w/ HNO3	☐	5/19/2014	5 days	1%+	☐	
1405744-016C	B-4	Water	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	16OZ GJ	☐	5/19/2014	5 days	1%+	☐	
1405744-017A	B-5	Water	SW8260B (VOCs)	2	VOA w/ HCl	☐	5/19/2014	5 days	1%+	☐	
1405744-017B	B-5	Water	E200.8 (LUFT)	1	250mL HDPE w/ HNO3	☐	5/19/2014	5 days	1%+	☐	
1405744-017C	B-5	Water	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	16OZ GJ	☐	5/19/2014	5 days	1%+	☐	
1405744-018A	B-6	Water	SW8260B (VOCs)	1	VOA w/ HCl	☐	5/19/2014	5 days	1%+	☐	
1405744-018B	B-6	Water	E200.8 (LUFT)	1	250mL HDPE w/ HNO3	☐	5/19/2014	5 days	1%+	☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

16OZ GJ = 16oz Glass Jar
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3
Acetate Liner = Acetate Liner
Stainless Tube =
VOA w/ HCl = 43mL VOA w/ HCl

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WORK ORDER SUMMARY

Client Name: ESA
Project: #120832-4E; SFO Plot 700
Comments:

QC Level: LEVEL 2
Client Contact: Michael G. Burns
Contact's Email: MBurns@esassoc.com

Work Order: 1405744
Date Received: 5/19/2014

☐WaterTrax ☐WriteOn ☐EDF ☐Excel ☐Fax ☐Email ☐HardCopy ☐ThirdParty ☐J-flag

Lab ID	Client ID	Matrix	Test Name	Number of Containers	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1405744-018C	B-6	Water	TPH (Fuel Fingerprint) w/ S.G. Clean-Up	1	16OZ GJ	☐	5/19/2014	5 days	1%+	☐	

*** NOTE: STLC and TCLP extractions require 48 hrs to complete; therefore, all TATs begin after the extraction is completed (i.e., 24hr TAT yields results in 72 hrs from sample submission).**

Bottle Legend:

16OZ GJ = 16oz Glass Jar
250mL HDPE w/ HNO3 = 250mL HDPE Bottle w/ HNO3
Acetate Liner = Acetate Liner
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PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

1405744

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☒ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: MICHAEL BURNS Bill To: MICHAEL BURNS
Company: Environmental Science Associates
1425 N. McDowell Blvd Suite 200
Petaluma, CA 94954 E-Mail: mburns@esassoc.com
Tele: (707) 285-0584 Fax: ( )
Project #: 120832-4E Project Name: SFO Plot 700
Project Location: SFO
Sampler Signature: [signature]

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
B-1-1	B-1	5/19/2010					X							
B-1-7	B-1	↓					X							
B-2-2	B-2						X							
B-2-7	B-2						X							
B-3-2.5	B-3						X							
B-3-10	B-3						X							
B-4-2	B-4						X							
B-4-4	B-4						X							
B-5-2	B-5						X							
B-5-3.5	B-5	↓					X							

Analysis Request / Other / Comments

SAMPLE ID	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Filter sample for DISSOLVED metals analysis	Fuel Finger print with silica gel cleanup		Comments
B-1-1											X				X			X		
B-1-7											X				X			X		
B-2-2											X				X			X		
B-2-7											X				X			X		
B-3-2.5											X				X			X		
B-3-10											X				X			X		
B-4-2											X				X			X		
B-4-4											X				X			X		
B-5-2											X				X			X		
B-5-3.5											X				X			X		

Comments: **Indicate here if these samples are potentially dangerous to handle:

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
[signature]	5-19-2010	745 PM	[signature]
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 3.2
GOOD CONDITION____
HEAD SPACE ABSENT____
DECHLORINATED IN LAB____
APPROPRIATE CONTAINERS____
PRESERVED IN LAB____

COMMENTS:

PRESERVATION VOAS O&G METALS (pH<2) OTHER

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DAY

GeoTracker EDF ☐ PDF ☒ Excel ☐ Write On (DW) ☐

☐ Check if sample is effluent and "J" flag is required

Report To: MICHAEL BURNS Bill To: MICHAEL BURNS

Company: Environmental Science Associates

1425 N. McDowell Blvd, Suite 200

Petaluma, CA 94954 E-Mail: mburns@esassoc.com

Tele: (707) 285-0584 Fax: ( )

Project #: 120832-4E Project Name: SFO Plot 700

Project Location: SFO

Sampler Signature:

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	BTEX & TPH as Gas (602 / 8021 + 8015) / MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	MTBE / BTEX ONLY (EPA 602 / 8021)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)	Other: Filter sample for DISSOLVED metals analysis	Other: Fuel Fingerprint with silica gel cleanup	Comments
B-6 - 2	B-6	5/19/2014					X																		X			X			X	X	
B-6 - 4	B-6						X																		X			X			X	X	
B-1	B-1					X								X											X			X				X	
B-2	B-2					X						X	X	X											Y			Y				Y	
B-3	B-3					X						X	X	Y											X			X				Y	
B-4	B-4					X						X	X	X											X			X				X	
B-5	B-5					X						X	X	X											X			X				X	
B-6	B-6					X						X	X	X											X			X				X	

Analysis Request | Other | Comments

**Indicate here if these samples are potentially dangerous to handle:

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By:	Date:	Time:	Received By:
	5/19/2014	7:45 PM	
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t°

GOOD CONDITION

HEAD SPACE ABSENT

DECHLORINATED IN LAB

APPROPRIATE CONTAINERS

PRESERVED IN LAB

VOAS O&G METALS OTHER

PRESERVATION pH<2

COMMENTS: ☆ Pour for TPH FF

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Sample Receipt Checklist

Client Name: **ESA**

Date and Time Received: **5/19/2014 11:14:56 PM**

Project Name: **#120832-4E; SFO Plot 700**

LogIn Reviewed by: Shana Carter

WorkOrder N°: **1405744** Matrix: Water/Soil/Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 13.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: pH<2; 522: pH<4)?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☐	No ☑	

** NOTE: If the "No" box is checked, see comments below.*

Comments: