

June 29, 2015

YRC Freight
10990 Roe Avenue
Overland Park, KS 66211



RECEIVED

By Alameda County Environmental Health 10:05 am, Jul 02, 2015

To Whom it May Concern:

Attached is the "WELL DESTRUCTION REPORT" for the former YRC Inc. (formerly known as Roadway Express) d.b.a. YRC Freight, property located at 1708 Wood Street in Oakland, CA 94607, Fuel Leak Case No. R00000039. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

YRC Freight is a subsidiary of YRC Worldwide Inc., as Manager –Environmental Services and Properties of YRC Freight, I have been charged by YRC Worldwide Inc., to represent YRC Freight.

Sincerely,

A handwritten signature in black ink, appearing to read "Ruben D. Byerley".

Ruben D. Byerley

Manager –Environmental Services and Properties.

Well Destruction Report



YRC Worldwide

YRC Worldwide Inc.

**Former Roadway Express (REX) Facility
1708 Wood St. Oakland, CA
ACEH ID: RO0000039
RB Case #: 01-2291
ACPWA Permit: W2015-0346
Project No. 79379**

**Revision 3
06/29/2015**

Well Destruction Report

Prepared for

**YRC Worldwide Inc.
Former Roadway Express (REX) Facility
1708 Wood St. Oakland, CA
ACEH ID: RO0000039
RB Case #: 01-2291
ACPWA Permit: W2015-0346
Overland Park, Kansas**

Project No. 79379

**Revision 3
06/29/2015**

prepared by

**Burns & McDonnell Engineering Company, Inc.
South San Francisco, California**

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INDEX AND CERTIFICATION

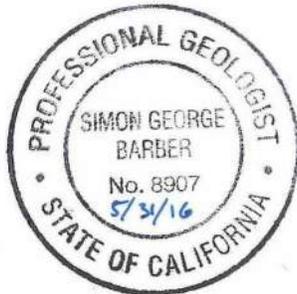
YRC Worldwide Inc. Well Destruction Report Project No. 79379

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Certification

I hereby certify, as a Professional Geologist in the state of California, that the information in this document was assembled under my direct personal charge. This report is not intended or represented to be suitable for reuse by the YRC Worldwide Inc. or others without specific verification or adaptation by the Geologist.



Simon Barber P.G. QSP/D (CA 8907)
BMcD Project Geologist

Date: 05/21/2015

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LIST OF ABBREVIATIONS

| <u>Abbreviation</u> | <u>Term/Phrase/Name</u> |
|----------------------------|--|
| ACEH | Alameda County Environmental Health |
| ACPWA | Alameda County Public Works Agency |
| bgs | Below Ground Surface |
| BMcD | Burns & McDonnell |
| Burns & McDonnell | Burns & McDonnell Engineering Company, Inc. |
| Cascade | Cascade Drilling L.P. |
| DOT | United States-Department of Transportation |
| HSA | Hollow Stem Auger |
| IDW | Investigation Derived Waste |
| LTC | Low Threat Closure |
| psi | Pounds per Square Inch |
| PVC | Poly-vinyl Chloride |
| SF-RWQCB | San Francisco Bay- Regional Water Quality Control Board (Region 2) |
| Site | Former Roadway Express (REX) Facility: 1708 Wood St. Oakland, CA |
| SWRCB | State Water Resources Control Board |
| USAN | Underground Service Alert of Northern California |
| YRC | YRC Worldwide Inc. |

1.0 EXECUTIVE SUMMARY

On behalf of YRC Worldwide Inc., (YRC), Burns & McDonnell Engineering Company Inc. (Burns & McDonnell), is please to present this well destruction report documenting the destruction of six monitoring wells at YRCs former YRC Freight-Roadway Express (REX) facility located at 1708 Wood Street (Site), Oakland, California (Figure 1-1 & Figure 1-2).

On May 19, 2015, in accordance with the Alameda County Public Works Agency (ACPWA) permit W2015-0346 (Appendix A), the Sites six remaining groundwater monitoring wells (MW-3 through MW-8) [Figure 1-3] were destroyed using over-drilling (to five feet below ground surface) and pressure grouting techniques by Cascade Drilling L.P. (Cascade), a CA C-57 licensed drilling company. Each monitoring well was backfilled with Type II-V neat cement till overflowing the well head and static level maintained. After which a poly vinyl chloride (PVC) threaded cap was cemented to the well-head, and air fittings were connected to the PVC union. Compressed air generated from the drill rig was applied at a pressure of 25 pound per square inch (psi) for duration of five minutes. All pressure tests passed the 25 psi for 5 minute criteria stipulated in the ACPWA permit.

Post pressure grouting, the well boxes and surrounding concrete and the top five feet of each monitoring well was removed with 8-inch outer diameter hollow stem auger flights. The borings were backfilled with grout to approximately 1 foot to 8 inches below ground surface (bgs). Surface grade was completed with rapid set concrete and hardener.

All remaining investigation, remediation, and well destruction derived wastes have been removed from the site.

2.0 INTRODUCTION

The Site is overseen by Alameda County Environmental Health (ACEH), ACEH ID: RO0000039, San Francisco Bay-Regional Water Quality Control Board (SF-RWQCB) Case #: 01-229, and State Water Resources Control Board (SWRQCB) GeoTracker ID: TO600102107. YRC Freight is a subsidiary of YRC Worldwide Inc., environmental management of the former YRC Freight-Roadway Express (REX) facility is managed through YRC Worldwide Inc. The site is currently owned by PSAI Partners IV LLC, located in San Francisco, California; and operated by Three Rivers Trucking as a trucking terminal.

2.1 Low Threat Closure Policy Acceptance

The ACEH has accepted Burns & McDonnell's recommendation for Low-Threat Closure (LTC) and determined that the Site satisfies SWRCB Resolution No. 2012-0062 Low-Threat UST Case Closure Policy criteria and has approved the final closure pending destruction of the Site's monitoring wells.

Public participation notification, a requirement for the case closure processes, was initiated by the ACEH and concluded on May 4, 2015. In a Letter dated May 5, 2015, the ACEH confirmed (Appendix B) that no public comments were received and that YRC was free to precede with well destruction activities at the Site. The Letter additionally requests the submittal of a monitoring well destruction and waste removal activities report be submitted by June 18, 2015 to the ACEH website and SWRCB GeoTracker Database.

3.0 WELL DESTRUCTION ACTIVITIES

3.1 Permitting & USA Service Alert

Alameda County Public Works Agency (ACPWA) Water Resources Well Permit W2015-0346 was acquired by Burns & McDonnell on April 28, 2014. The Sites monitoring wells were then demarked with white paint and Underground Service Alert of Northern California (USAN) was notified; USAN dig alert ticket #: 0223405 was issued. USAN contacted the appropriate utility owners and agencies of record within the Site vicinity and notified them of the schedule of work in proximity of potential subsurface utilities. Selected utility owners of record, or their designated agents, marked the position of their utilities on the ground surface throughout the area designated for investigation.

3.2 Well Destruction Activities

On May 19, 2015, Cascade (CA C-57 # 938110) under supervisor of a Burns & McDonnell CA professional geologist, properly destroyed all Site wells (MW-3 through MW-8) using standard well pressure grouting techniques and ACPW permits conditions. Historical monitoring wells MW-1 and MW-2 were destroyed in August 2009.

Cascade placed neat cement (Type II-V) within each PVC well casing until overflowing. Sufficient time was allowed for initial settling. Once a static grout level was obtained, a PVC threaded cap was cemented to the well head and air fittings were attached. Cascade applied constant pressure at each monitoring well at a constant pressure of 25 psi for duration of five minutes. Each Site well passed the pressure grouting pressure test on the first attempt.

Post pressure grouting, Cascade removed the well boxes and surrounding concrete and over-drilled each well using a CME 75 hollow stem auger drill rig (HSA) with an 8 inch outer diameter hollow stem auger flight to a depth of 5 feet bgs. Each wells vault and sanitary seal was removed during over-drilling. Well construction details are shown as Table 3-1.

The boreholes were backfilled with grout to an approximate depth of 8 inches bgs. The top grade was completed with rapid set high strength concrete. Well destruction photographs are provided as Appendix C.

3.3 Investigation Derived Waste

Investigation Derived Waste (IDW) which included the annular materials generated during drilling, and decontamination fluids and construction debris generated during over-drilling activities (e.g. well vaults, concrete) were containerized in Department of Transportation (DOT) 55-gallon steel drum(s) pending disposal or recycling at an appropriate facility. The drum(s) were sealed and labeled, date of waste generation, type of waste, name and phone number of Burns & McDonnell representative. The IDW soil was profiled. After acceptance of the waste characterization profile by a licensed disposal facility, the drums were disposed of at appropriate disposal facilities by Univar USA Inc (US EPA ID CAD010925576), which holds the appropriate licensing for these activities. The waste disposal manifest is included in Appendix D. The analytical testing report in support of the profiling is attached as Appendix E.

In summary, all remaining investigation, remediation, and well destruction derived wastes have been removed from the site.

4.0 SUMMARY

On May 19, 2015, Burns & McDonnell oversaw the permanent destruction of Site wells MW-3 through MW-8 by pressure grouting; destructions were performed by Cascade. Each well passed the pressure grouting test criteria set forth by ACPWA of 25 psi for duration of 5 minutes. Post pressure grouting, each well was over-drilled to a depth of 5 feet bgs and backfilled with grout. The top grade was completed with concrete to match surrounding conditions.

All remaining investigation, remediation, and well destruction derived wastes have been removed from the site.

As stated by the ACEH, the Site is in compliance with SWRCB Low-Threat Closure Policy and therefore eligible for closure. The Public Participation period has expired with no recorded comments submitted to the ACEH regarding the Site, and all Site wells summarily destroyed. Henceforth, on behalf of YRC, Burns & McDonnell anticipates that the ACEH shall formally grant No Further Action status upon the receipt of this report.

TABLES

**Table 3-1
Well Construction Details**

YRC Worldwide Inc.
Former Roadway Express (REX) Facility
1708 Wood Street
Oakland, California

| Well ID | Installation Date | Casing Diameter (Inches) | Casing Elevation (ft msl) | Construction Depth (ft msl) | Screened Interval (ft msl) | Comments |
|---------|-------------------|--------------------------|---------------------------|-----------------------------|----------------------------|----------------------------|
| MW-1 | March 1987 | 4 | unknown | 10 | 0.5-10 | Well Destroyed August 2008 |
| MW-2 | March 1987 | 4 | 9.89 | 9.5 | 0.5-9.5 | Well Destroyed August 2008 |
| MW-3 | September 2000 | 2 | 10.11 | 30 | 10-30 | Well Destroyed May 2015 |
| MW-4 | September 2000 | 2 | 9.52 | 30 | 10-30 | Well Destroyed May 2015 |
| MW-5 | September 2000 | 2 | 9.97 | 30 | 10-30 | Well Destroyed May 2015 |
| MW-6 | February 2009 | 1 | 10.13 | 10 | 5-10 | Well Destroyed May 2015 |
| MW-7 | February 2009 | 1 | 9.93 | 10 | 5-10 | Well Destroyed May 2015 |
| MW-8 | February 2009 | 1 | 9.83 | 10 | 5-10 | Well Destroyed May 2015 |

Notes:

ft msl Elevation reference in feet to mean sea level
ft bgs Depth in feet below ground surface

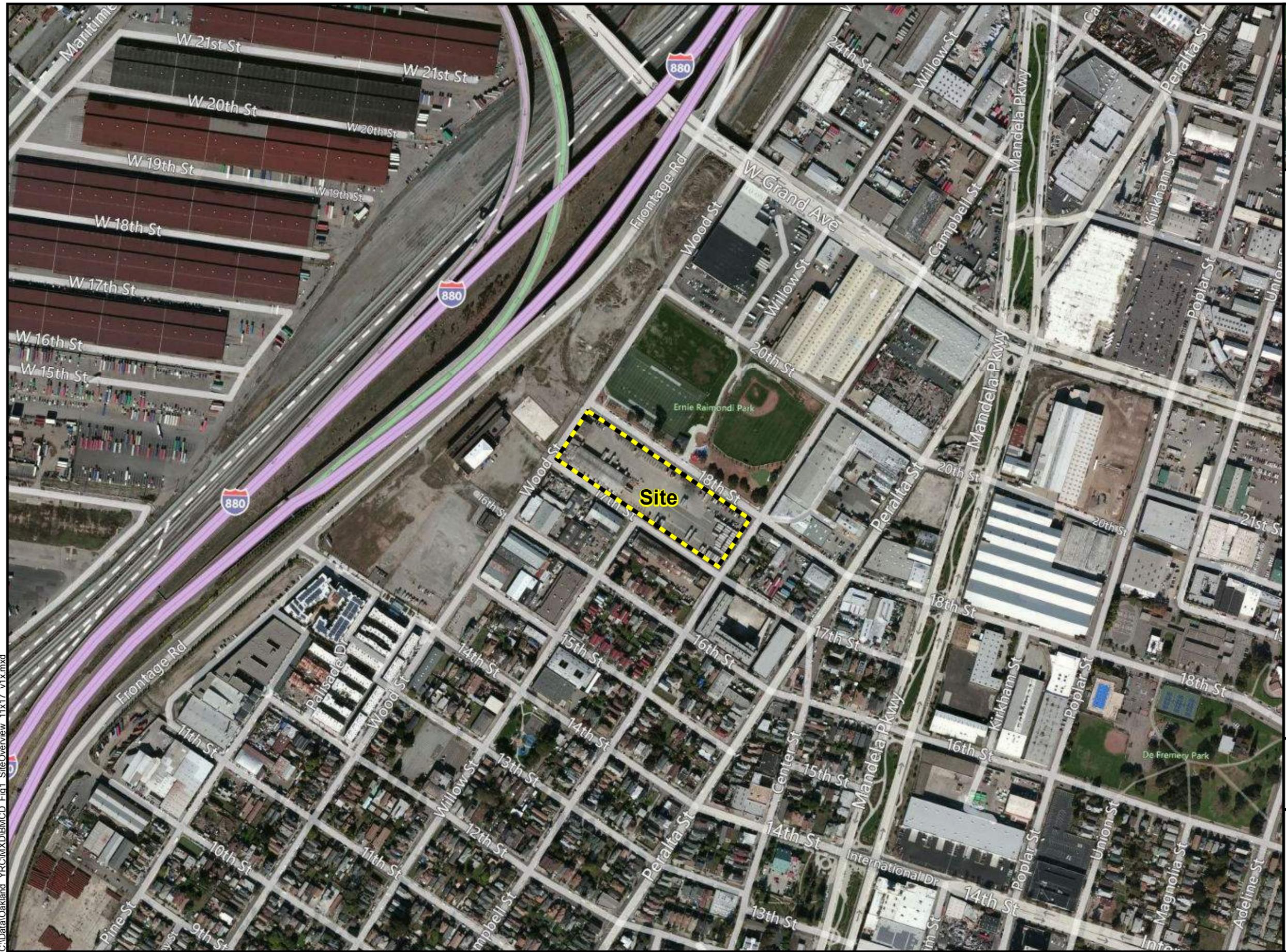
Construction-Survey Notes:

Construction depth and screened intervals for MW-3, MW-4, and MW-5 based on boring logs located in the *Additional Groundwater Investigation Report by One Environment, 2001*.
Casing elevation for MW-2, MW-3, MW-4, and MW-5 resurveyed by Luk and Associates on December 20, 2007.
Casing elevation for MW-6, MW-7, and MW-8 surveyed by Luk and Associates on March 3, 2009.

Well Destruction Notes:

August 2008: Monitoring wells MW-1 and MW-2 deastroyed by overdrilling.
May 19, 2015: Monitoring wells MW-3 through MW-8 destroyed by pressure grouting.

FIGURES



LEGEND



Site

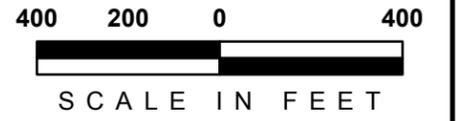
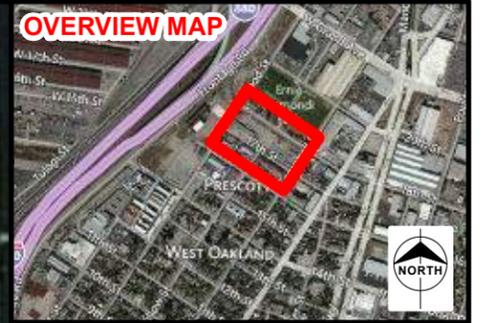


Figure 1-1

LOCATION MAP

FORMER ROADWAY EXPRESS
1708 WOOD STREET
OAKLAND, CA



LEGEND

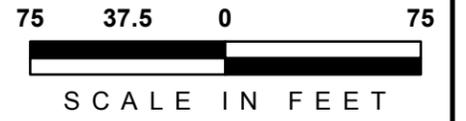
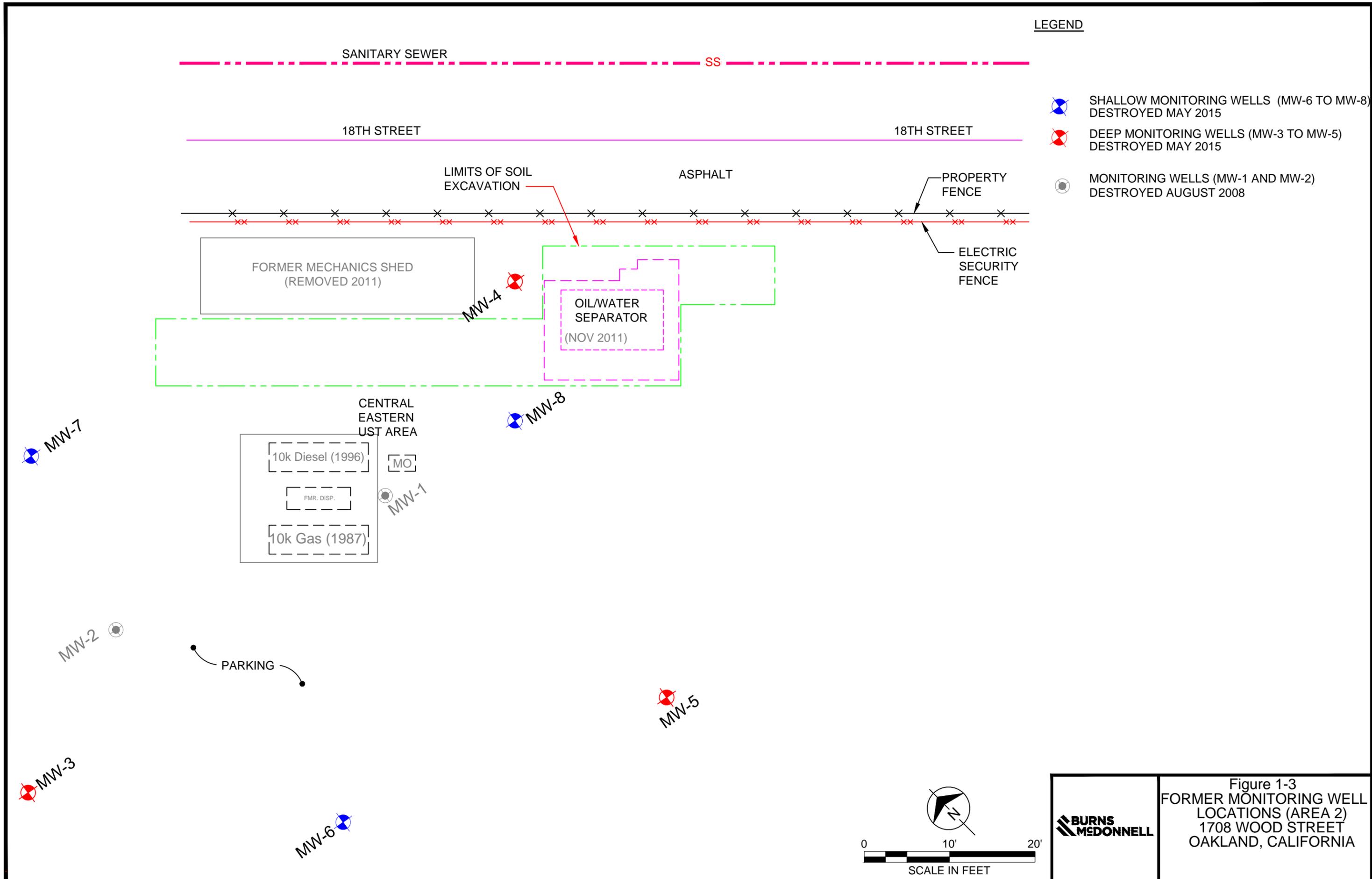


Figure 1-2
SITE PLAN
FORMER ROADWAY EXPRESS
1708 WOOD STREET
OAKLAND, CA

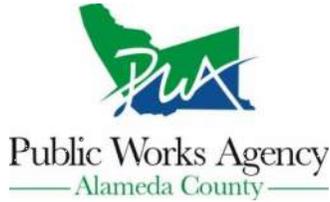
LEGEND

-  SHALLOW MONITORING WELLS (MW-6 TO MW-8)
DESTROYED MAY 2015
-  DEEP MONITORING WELLS (MW-3 TO MW-5)
DESTROYED MAY 2015
-  MONITORING WELLS (MW-1 AND MW-2)
DESTROYED AUGUST 2008



**APPENDIX A - ALAMEDA COUNTY PUBLIC WORKS AGENCY- WELL
PERMIT**

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 04/28/2015 By jamesy

Permit Numbers: W2015-0346
Permits Valid from 05/19/2015 to 05/20/2015

Application Id: 1428358785443
Site Location: 1708 Wood Street
Project Start Date: 05/19/2015

City of Project Site:Oakland
Completion Date:05/20/2015

Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Applicant: Burns & McDonnell - Christopher D'Sa
200 S Los Robles Ave #250, Pasadena, CA 91101
Property Owner: Attn: Martin Ward PSAI Partners IV, LLC.
155 Montgomery St Ste 1600, San Francisco, CA 94104
Client: Ruben Byerley
10990 Roe Avenue, Overland Park, KS 66211

Phone: 310-570-7069
Phone: 415-362-3743
Phone: 913-234-8940 x

| | | |
|--------------------------------------|---------------------------|---------------------|
| Receipt Number: WR2015-0194 | Total Due: | \$265.00 |
| Payer Name : Christopher D'Sa | Total Amount Paid: | \$265.00 |
| | Paid By: MC | PAID IN FULL |

Works Requesting Permits:

Remediation Well Destruction-Injection - 6 Wells
Driller: CASCADE DRILLING L P - Lic #: 938110 - Method: press

Work Total: \$265.00

Specifications

| Permit # | Issued Date | Expire Date | Owner Well Id | Hole Diam. | Casing Diam. | Seal Depth | Max. Depth | State Well # | Orig. Permit # | DWR # |
|------------|-------------|-------------|---------------|------------|--------------|------------|------------|--------------|----------------|------------|
| W2015-0346 | 04/28/2015 | 08/17/2015 | MW-3 | 8.00 in. | 2.00 in. | 8.00 ft | 30.00 ft | No Records | No Records | No Records |
| W2015-0346 | 04/28/2015 | 08/17/2015 | MW-4 | 8.00 in. | 2.00 in. | 8.00 ft | 30.00 ft | No Records | No Records | No Records |
| W2015-0346 | 04/28/2015 | 08/17/2015 | MW-5 | 8.00 in. | 2.00 in. | 8.00 ft | 30.00 ft | No Records | No Records | No Records |
| W2015-0346 | 04/28/2015 | 08/17/2015 | MW-6 | 4.00 in. | 1.00 in. | 4.00 ft | 10.00 ft | No Records | No Records | No Records |
| W2015-0346 | 04/28/2015 | 08/17/2015 | MW-7 | 4.00 in. | 1.00 in. | 4.00 ft | 10.00 ft | No Records | No Records | No Records |
| W2015-0346 | 04/28/2015 | 08/17/2015 | MW-8 | 4.00 in. | 1.00 in. | 4.00 ft | 10.00 ft | No Records | No Records | No Records |

Specific Work Permit Conditions

1. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
2. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.
3. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
4. Remove the Christy box or similar structure.

Alameda County Public Works Agency - Water Resources Well Permit

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

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

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

APPENDIX B - WELL DESTRUCTION APPROVAL LETTER



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

May 5, 2015

Ruben Byerley
Roadway Express
1077 Gorge Boulevard
Akron, OH 44310
(Sent via E-mail to:
ruben.byerley@yrcfreight.com)

Martin Ward
PSIA Partners IV LLC
155 Montgomery St., Suite 1600
San Francisco, CA 94104
(Sent via E-mail to:
MWard@psai-cre.com)

Subject: Well Destruction Authorization for Fuel Leak Case No. RO0000039 (GeoTracker Global ID T0600102107), Roadway Express, 1708 Wood Street, Oakland, CA 94607

Dear Responsible Parties:

The public comment period for the subject site ended on May 4, 2015. No comments were received by Alameda County Environmental Health (ACEH). You are free to proceed with the destruction of all wells associated with the site (groundwater, vapor, etc.), as requested in the April 6, 2015 letter from ACEH. As requested in the letter, please contact the Alameda County Public Works Agency to obtain well destruction permits. Following the well destruction, please provide ACEH a well destruction report according to the schedule outlined below. The well destruction report should document site activities, provide well destruction permit documentation, and documentation indicating that any remaining investigation, remediation, and well destruction derived waste have been removed from the site.

TECHNICAL REPORT REQUEST

Please submit reports to Alameda County Environmental Health, and upload technical reports to the ACEH ftp site (Attention: Keith Nowell), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **June 18, 2015 - Monitoring Well Destruction and Waste Removal Activities** - File to be named RO39_WELL_DCM_R_yyyymm-dd

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

Should you have any questions, please contact me at (510) 567-6764 or send me an electronic mail message at keith.nowell@acgov.org.

Sincerely,

Digitally signed by Keith Nowell
DN: cn=Keith Nowell, o=Alameda
County, ou=Department of
Environmental Health,
email=keith.nowell@acgov.org, c=US
Date: 2015.05.05 08:35:13 -07'00'

Keith Nowell, PG, CHG
Hazardous Materials Specialist

Responsible Parties
RO0000280
May 5, 2015, Page 2

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements/Obligations and Electronic Report Upload (ftp) Instructions

cc: Christopher D'Sa, Burns and McDonnell Engineering Company, Inc., 400 Oyster Point Blvd., Suite 533, South San Francisco, CA 94080 (*Sent via E-mail to: cdsa@burnsmcd.com*)

James Yoo, Alameda Co. Dept. of Public Works, Water Resources Section, 399 Elmhurst Street, Hayward, CA 94544 (*Sent via E-mail to: jamesy@acpwa.org*)

Dilan Roe, ACEH, (sent via e-mail to dilan.roe@acgov.org)

Keith Nowell, ACEH, (sent via e-mail keith.nowell@acgov.org)

Geotracker, Electronic File

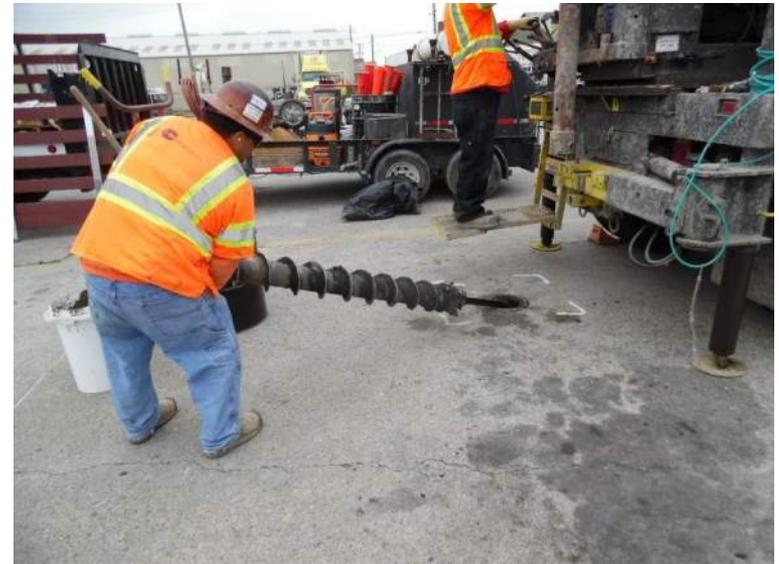
APPENDIX C - WELL DESTRUCTION PHOTOGRAPHS

Former Roadway Express (REX): Well Destruction- May 2015

Pressure-Grouting



Over-Drilling



Former Roadway Express (REX): Well Destruction- May 2015

Well Vault Removal



Restoration



APPENDIX D - WASTE DISPOSAL MANIFEST

| | | | | |
|---|---|-----------------------|--|---|
| UNIFORM HAZARDOUS WASTE MANIFEST | 1. Generator ID Number CAR000039180 | 2. Page 1 of 2 | 3. Emergency Response Phone Univar USA Inc. 800-535-5053 | 4. Manifest Tracking Number 014370009 JJK |
|---|---|-----------------------|--|---|

5. Generator's Name and Mailing Address
YRC INC DBA YRC FREIGHT
1708 WOOD STREET
OAKLAND, CA 94607
 Generator's Phone: **513 344-3644**

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
1. UNIVAR USA INC.

U.S. EPA ID Number
CAD010925576

7. Transporter 2 Company Name
2. ENGLUND EQUIPMENT CO.

U.S. EPA ID Number
AZD982403586

8. Designated Facility Name and Site Address
US ECOLOGY BEATTY
PO BOX 578
HWY 95 (11 MI S OF BEATTY), BEATTY, NV 89003-057
 Facility's Phone: **800-239-3943**

U.S. EPA ID Number
NVT330010000

| 9a. HM | 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) | 10. Containers | | 11. Total Quantity | 12. Unit Wt./Vol. | 13. Waste Codes | | |
|--------|--|----------------|-----------|--------------------|-------------------|-----------------|--|------------|
| | | No. | Type | | | | | |
| | 1. NON-RCRA HAZARDOUS WASTE, SOLID (SOIL CUTTINGS) | 1 | DM | 200 P | | | | 181 |
| | 2. | | | | | | | |
| | 3. | | | | | | | |
| | 4. | | | | | | | |

14. Special Handling Instructions and Additional Information
1. 070128300-11781
PLACARDS PROVIDED BY CARRIER/SHIPPER YES (NO) DRIVER SIGNATURE TONY TR
****** ER CALLER MUST IDENTIFY UNIVAR USA AS REGISTRANT (CONTRACT # 97569) ******

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 282.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name
Fernando Ambril

Signature
[Signature]

Month Day Year
6 | 17 | 15

16. International Shipments Import to U.S. Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____

Transporter signature (for exports only): _____

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
JAMES MINKS

Signature
[Signature]

Month Day Year
6 | 17 | 15

Transporter 2 Printed/Typed Name
TONY RODRIGUEZ

Signature
[Signature]

Month Day Year
06 | 22 | 15

18. Discrepancy

18a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Full Rejection

Manifest Reference Number: _____

18b. Alternate Facility (or Generator)

U.S. EPA ID Number _____

Facility's Phone: _____

18c. Signature of Alternate Facility (or Generator)

Month Day Year _____

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1. **H32** 2. _____ 3. _____ 4. _____

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name
Jessica Threl

Signature
[Signature]

Month Day Year
6 | 26 | 15

**APPENDIX E - ANALYTICAL REPORT
IN SUPPORT OF WASTE PROFILING**

Technical Report for

Burns and McDonnell Engineering

T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA
79379

Accutest Job Number: C39925

Sampling Date: 05/19/15

Report to:

Burns and McDonnell Engineering
400 Oyster Point Blvd Suite 533
South San Francisco, CA 94080
sbarber@burnsmcd.com

ATTN: Simon Barber

Total number of pages in report: 58



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



James J. Rhudy
Lab Director

Client Service contact: Nutan Kabir 408-588-0200

Certifications: CA (ELAP 2910) AK (UST-092) AZ (AZ0762) NV (CA00150) OR (CA300006) WA (C925)
DoD ELAP (L-A-B L2242)

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Test results relate only to samples analyzed.

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Sample Summary

Burns and McDonnell Engineering

Job No: C39925

T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA
Project No: 79379

| Sample Number | Collected | | Matrix | | | Client Sample ID |
|---------------|-----------|----------|----------|------|------|------------------|
| | Date | Time By | Received | Code | Type | |
| C39925-1 | 05/19/15 | 11:00 SB | 05/20/15 | SO | Soil | COMP-1 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: C39925
Account: Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA
Collected: 05/19/15

| Lab Sample ID | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---------------|------------------|-----------------|----|-----|-------|--------|
|---------------|------------------|-----------------|----|-----|-------|--------|

C39925-1 **COMP-1**

| | | | | | |
|---------------------|------|------|-----|-------|---------------|
| Acetone | 652 | 160 | 40 | ug/kg | SW846 8260B |
| Methyl ethyl ketone | 956 | 81 | 8.1 | ug/kg | SW846 8260B |
| TPH-GRO (C6-C10) | 1250 | 400 | 200 | ug/kg | SW846 8260B |
| TPH (C10-C28) | 30.5 | 16 | 4.1 | mg/kg | SW846 8015B M |
| TPH (> C28-C40) | 146 | 33 | 8.2 | mg/kg | SW846 8015B M |
| Arsenic | 5.3 | 1.7 | | mg/kg | SW846 6010B |
| Barium | 239 | 17 | | mg/kg | SW846 6010B |
| Chromium | 41.4 | 0.86 | | mg/kg | SW846 6010B |
| Cobalt | 7.9 | 0.86 | | mg/kg | SW846 6010B |
| Copper | 43.4 | 2.2 | | mg/kg | SW846 6010B |
| Lead | 95.3 | 1.7 | | mg/kg | SW846 6010B |
| Mercury | 2.8 | 0.37 | | mg/kg | SW846 7471A |
| Molybdenum | 1.7 | 1.7 | | mg/kg | SW846 6010B |
| Nickel | 62.3 | 0.86 | | mg/kg | SW846 6010B |
| Selenium | 2.3 | 1.7 | | mg/kg | SW846 6010B |
| Vanadium | 47.1 | 0.86 | | mg/kg | SW846 6010B |
| Zinc | 119 | 1.7 | | mg/kg | SW846 6010B |



Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Page 1 of 3

| | | | |
|--------------------------|--|------------------------|------------------|
| Client Sample ID: | COMP-1 | Date Sampled: | 05/19/15 |
| Lab Sample ID: | C39925-1 | Date Received: | 05/20/15 |
| Matrix: | SO - Soil | Percent Solids: | n/a ^a |
| Method: | SW846 8260B | | |
| Project: | T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|----------|----|----------|----|-----------|------------|------------------|
| Run #1 | L41449.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| Run #2 | L41457.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

| Run # | Initial Weight |
|--------|----------------|
| Run #1 | 5.00 g |
| Run #2 | 1.24 g |

VOA 8260 List

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|------------------|-----|------|-------|---|
| 67-64-1 | Acetone | 652 ^b | 160 | 40 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.50 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 0.50 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 0.50 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.50 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.50 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.50 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.0 | 0.50 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.50 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.50 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 0.50 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.0 | 0.50 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.50 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 1.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 0.50 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.50 | ug/kg | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.50 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.50 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 0.50 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.0 | 1.1 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 0.50 | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.0 | 0.50 | ug/kg | |

ND = Not detected MDL = Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

| | | |
|--|--|---|
| Client Sample ID: COMP-1 | | Date Sampled: 05/19/15 |
| Lab Sample ID: C39925-1 | | Date Received: 05/20/15 |
| Matrix: SO - Soil | | Percent Solids: n/a ^a |
| Method: SW846 8260B | | |
| Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA | | |

VOA 8260 List

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|-----------|----------------------|--------|--------|---------|
| 2037-26-5 | Toluene-D8 | 110% | 106% | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | 99% | 70-130% |

- (a) All results reported on a wet weight basis.
- (b) Result is from Run# 2
- (c) Outside control limits due to matrix interference. Confirmed by reanalysis.

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

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

Report of Analysis

| | | | |
|--------------------------|--|------------------------|------------------|
| Client Sample ID: | COMP-1 | Date Sampled: | 05/19/15 |
| Lab Sample ID: | C39925-1 | Date Received: | 05/20/15 |
| Matrix: | SO - Soil | Percent Solids: | n/a ^a |
| Method: | SW846 8015B M SW846 3550B | | |
| Project: | T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA | | |

| Run # | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|----|-----------|------------|------------------|
| Run #1 | GG58555.D | 5 | 05/22/15 | NN | 05/21/15 | OP12273 | GGG1717 |
| Run #2 | | | | | | | |

| Run # | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

TPH Extractable w/ Silica Gel Cleanup

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-----------------|--------|----|-----|-------|---|
| | TPH (C10-C28) | 30.5 | 16 | 4.1 | mg/kg | |
| | TPH (> C28-C40) | 146 | 33 | 8.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|----------|----------------------|--------|--------|---------|
| 630-01-3 | Hexacosane | 98% | | 37-122% |

(a) All results reported on a wet weight basis.

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

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

Report of Analysis

| | |
|--|---|
| Client Sample ID: COMP-1 | Date Sampled: 05/19/15 |
| Lab Sample ID: C39925-1 | Date Received: 05/20/15 |
| Matrix: SO - Soil | Percent Solids: n/a ^a |
| Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA | |

Metals Analysis

| Analyte | Result | RL | Units | DF | Prep | Analyzed By | Method | Prep Method |
|------------|--------|------|-------|----|----------|-------------|--------------------------|--------------------------|
| Antimony | < 1.7 | 1.7 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Arsenic | 5.3 | 1.7 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Barium | 239 | 17 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Beryllium | < 0.86 | 0.86 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Cadmium | < 0.86 | 0.86 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Chromium | 41.4 | 0.86 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Cobalt | 7.9 | 0.86 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Copper | 43.4 | 2.2 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Lead | 95.3 | 1.7 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Mercury | 2.8 | 0.37 | mg/kg | 10 | 05/21/15 | 05/22/15 EB | SW846 7471A ² | SW846 7471A ⁴ |
| Molybdenum | 1.7 | 1.7 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Nickel | 62.3 | 0.86 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Selenium | 2.3 | 1.7 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Silver | < 0.86 | 0.86 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Thallium | < 1.7 | 1.7 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Vanadium | 47.1 | 0.86 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |
| Zinc | 119 | 1.7 | mg/kg | 1 | 05/21/15 | 05/22/15 RS | SW846 6010B ¹ | SW846 3050B ³ |

- (1) Instrument QC Batch: MA4892
- (2) Instrument QC Batch: MA4895
- (3) Prep QC Batch: MP9555
- (4) Prep QC Batch: MP9563

(a) All results reported on a wet weight basis.

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



Accutest Laboratories Sample Receipt Summary

Accutest Job Number: C39925 Client: BURNS & MCDONNELL Project: YRC 1708 WOOD STREET
 Date / Time Received: 5/20/2015 12:14:00 PM Delivery Method: Accutest Courier Airbill #s: _____
 Cooler Temps (Initial/Adjusted): #1: (4.7/4.7):

Cooler Security

| | <u>Y or N</u> | | | <u>Y or N</u> | |
|---------------------------|--------------------------|-------------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input type="checkbox"/> | <input type="checkbox"/> | 4. SmpI Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

| | <u>Y or N</u> | |
|----------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Therm ID: | <u>IR1;</u> | |
| 3. Cooler media: | <u>Ice (Bag)</u> | |
| 4. No. Coolers: | <u>1</u> | |

Quality Control Preservation

| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 4. VOCs headspace free: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |

Comments

Sample Integrity - Documentation

| | <u>Y</u> | <u>or</u> | <u>N</u> |
|--|-------------------------------------|--------------------------|----------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Sample Integrity - Condition

| | <u>Y</u> | <u>or</u> | <u>N</u> |
|----------------------------------|-------------------------------------|--------------------------|----------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3. Condition of sample: | <u>Intact</u> | | |

Sample Integrity - Instructions

| | <u>Y</u> | <u>or</u> | <u>N</u> | <u>N/A</u> |
|---|-------------------------------------|-------------------------------------|----------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | | <input checked="" type="checkbox"/> |

4.1
4

GC/MS Volatiles

5

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary**Job Number:** C39925**Account:** BMECASF Burns and McDonnell Engineering**Project:** T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VL1244-MB | L41448.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

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

C39925-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|------------|-----------------------------|--------|-----|------|-------|---|
| 67-64-1 | Acetone | ND | 40 | 10 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.0 | 0.50 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 0.50 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 0.50 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 0.50 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 0.50 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 0.50 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 0.50 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 1.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.0 | 0.50 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 0.50 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 0.50 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 0.50 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 0.50 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.0 | 0.50 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 0.50 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 1.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 0.50 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 0.50 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 0.50 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 0.50 | ug/kg | |
| 108-20-3 | Di-Isopropyl ether | ND | 5.0 | 0.50 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 0.50 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 0.50 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 1.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.0 | 1.1 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 0.50 | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.0 | 0.50 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 0.50 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 0.50 | ug/kg | |
| 637-92-3 | Ethyl tert-Butyl Ether | ND | 5.0 | 0.50 | ug/kg | |

Method Blank Summary

Job Number: C39925

Account: BMECASF Burns and McDonnell Engineering

Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VL1244-MB | L41448.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

The QC reported here applies to the following samples:

Method: SW846 8260B

C39925-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|-----------|---------------------------|--------|-----|------|-------|---|
| 591-78-6 | 2-Hexanone | ND | 20 | 2.0 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 1.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 0.50 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 0.50 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 20 | 2.0 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.0 | 1.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.0 | 1.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 0.50 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 20 | 5.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 20 | 2.0 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 1.0 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.0 | 1.0 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 0.50 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.0 | 0.50 | ug/kg | |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 5.0 | 0.50 | ug/kg | |
| 75-65-0 | Tert Butyl Alcohol | ND | 40 | 10 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 0.50 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 0.50 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 0.50 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 0.50 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 1.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 0.50 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | 1.0 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | 1.0 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 0.60 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.0 | 0.50 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 0.50 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 1.0 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 1.0 | ug/kg | |
| 1330-20-7 | Xylene (total) | ND | 10 | 1.0 | ug/kg | |
| | TPH-GRO (C6-C10) | ND | 100 | 50 | ug/kg | |

Method Blank Summary

Job Number: C39925
Account: BMECASF Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-----------|----------|----|----------|----|-----------|------------|------------------|
| VL1244-MB | L41448.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

The QC reported here applies to the following samples:

Method: SW846 8260B

C39925-1

| CAS No. | Surrogate Recoveries | Limits |
|-----------|----------------------|--------------|
| 1868-53-7 | Dibromofluoromethane | 93% 70-130% |
| 2037-26-5 | Toluene-D8 | 104% 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 95% 70-130% |

5.1.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C39925

Account: BMECASFS Burns and McDonnell Engineering

Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|----------|----|----------|----|-----------|------------|------------------|
| VL1244-BS | L41445.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| VL1244-BSD | L41446.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

The QC reported here applies to the following samples:

Method: SW846 8260B

C39925-1

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | BSD ug/kg | BSD % | RPD | Limits Rec/RPD |
|------------|-----------------------------|----------------|--------------|----------|--------------|----------|-----|-------------------|
| 67-64-1 | Acetone | 160 | 135 | 84 | 141 | 88 | 4 | 62-130/24 |
| 71-43-2 | Benzene | 40 | 34.5 | 86 | 34.5 | 86 | 0 | 81-119/20 |
| 108-86-1 | Bromobenzene | 40 | 36.4 | 91 | 36.5 | 91 | 0 | 79-120/22 |
| 74-97-5 | Bromochloromethane | 40 | 34.1 | 85 | 34.9 | 87 | 2 | 81-120/19 |
| 75-27-4 | Bromodichloromethane | 40 | 36.3 | 91 | 36.6 | 92 | 1 | 79-124/20 |
| 75-25-2 | Bromoform | 40 | 36.7 | 92 | 38.7 | 97 | 5 | 76-128/21 |
| 104-51-8 | n-Butylbenzene | 40 | 38.3 | 96 | 37.8 | 95 | 1 | 79-123/26 |
| 135-98-8 | sec-Butylbenzene | 40 | 37.6 | 94 | 37.8 | 95 | 1 | 77-122/24 |
| 98-06-6 | tert-Butylbenzene | 40 | 36.3 | 91 | 37.1 | 93 | 2 | 77-121/23 |
| 108-90-7 | Chlorobenzene | 40 | 36.6 | 92 | 38.0 | 95 | 4 | 82-121/20 |
| 75-00-3 | Chloroethane | 40 | 32.0 | 80 | 32.1 | 80 | 0 | 80-126/21 |
| 67-66-3 | Chloroform | 40 | 34.8 | 87 | 35.3 | 88 | 1 | 82-123/20 |
| 95-49-8 | o-Chlorotoluene | 40 | 36.4 | 91 | 36.3 | 91 | 0 | 78-125/25 |
| 106-43-4 | p-Chlorotoluene | 40 | 37.2 | 93 | 37.4 | 94 | 1 | 75-125/26 |
| 56-23-5 | Carbon tetrachloride | 40 | 36.3 | 91 | 36.0 | 90 | 1 | 82-127/22 |
| 75-34-3 | 1,1-Dichloroethane | 40 | 34.2 | 86 | 34.7 | 87 | 1 | 80-123/20 |
| 75-35-4 | 1,1-Dichloroethylene | 40 | 29.8 | 75* a | 30.2 | 76 | 1 | 76-123/19 |
| 563-58-6 | 1,1-Dichloropropene | 40 | 35.7 | 89 | 35.6 | 89 | 0 | 79-123/20 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 40 | 34.9 | 87 | 35.8 | 90 | 3 | 64-133/23 |
| 106-93-4 | 1,2-Dibromoethane | 40 | 35.4 | 89 | 37.1 | 93 | 5 | 80-120/20 |
| 107-06-2 | 1,2-Dichloroethane | 40 | 37.7 | 94 | 37.1 | 93 | 2 | 76-132/21 |
| 78-87-5 | 1,2-Dichloropropane | 40 | 35.5 | 89 | 35.3 | 88 | 1 | 80-121/20 |
| 142-28-9 | 1,3-Dichloropropane | 40 | 36.5 | 91 | 37.9 | 95 | 4 | 78-120/20 |
| 108-20-3 | Di-Isopropyl ether | 40 | 34.4 | 86 | 34.9 | 87 | 1 | 78-126/19 |
| 594-20-7 | 2,2-Dichloropropane | 40 | 35.0 | 88 | 34.9 | 87 | 0 | 77-132/22 |
| 124-48-1 | Dibromochloromethane | 40 | 36.7 | 92 | 38.3 | 96 | 4 | 76-121/21 |
| 75-71-8 | Dichlorodifluoromethane | 40 | 41.5 | 104 | 39.9 | 100 | 4 | 51-135/23 |
| 156-59-2 | cis-1,2-Dichloroethylene | 40 | 33.6 | 84 | 34.3 | 86 | 2 | 79-123/20 |
| 10061-01-5 | cis-1,3-Dichloropropene | 40 | 34.9 | 87 | 35.6 | 89 | 2 | 81-124/21 |
| 541-73-1 | m-Dichlorobenzene | 40 | 37.2 | 93 | 37.2 | 93 | 0 | 79-123/23 |
| 95-50-1 | o-Dichlorobenzene | 40 | 37.5 | 94 | 37.5 | 94 | 0 | 79-124/22 |
| 106-46-7 | p-Dichlorobenzene | 40 | 37.4 | 94 | 36.9 | 92 | 1 | 79-123/22 |
| 156-60-5 | trans-1,2-Dichloroethylene | 40 | 32.8 | 82 | 33.5 | 84 | 2 | 78-120/19 |
| 10061-02-6 | trans-1,3-Dichloropropene | 40 | 37.2 | 93 | 38.9 | 97 | 4 | 81-123/22 |
| 100-41-4 | Ethylbenzene | 40 | 36.4 | 91 | 37.7 | 94 | 4 | 80-119/21 |
| 637-92-3 | Ethyl tert-Butyl Ether | 40 | 34.5 | 86 | 35.1 | 88 | 2 | 75-132/21 |

* = Outside of Control Limits.

5.2.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C39925

Account: BMECASFS Burns and McDonnell Engineering

Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|----------|----|----------|----|-----------|------------|------------------|
| VL1244-BS | L41445.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| VL1244-BSD | L41446.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

The QC reported here applies to the following samples:

Method: SW846 8260B

C39925-1

| CAS No. | Compound | Spike ug/kg | BSP ug/kg | BSP % | BSD ug/kg | BSD % | RPD | Limits Rec/RPD |
|-----------|---------------------------|-------------|-----------|-------|-----------|-------|-----|----------------|
| 591-78-6 | 2-Hexanone | 160 | 142 | 89 | 148 | 93 | 4 | 68-139/24 |
| 87-68-3 | Hexachlorobutadiene | 40 | 39.0 | 98 | 38.3 | 96 | 2 | 81-126/32 |
| 98-82-8 | Isopropylbenzene | 40 | 36.5 | 91 | 38.1 | 95 | 4 | 81-122/22 |
| 99-87-6 | p-Isopropyltoluene | 40 | 37.5 | 94 | 37.4 | 94 | 0 | 81-121/23 |
| 108-10-1 | 4-Methyl-2-pentanone | 160 | 135 | 84 | 137 | 86 | 1 | 74-136/23 |
| 74-83-9 | Methyl bromide | 40 | 34.8 | 87 | 35.5 | 89 | 2 | 82-124/20 |
| 74-87-3 | Methyl chloride | 40 | 37.9 | 95 | 37.8 | 95 | 0 | 60-132/26 |
| 74-95-3 | Methylene bromide | 40 | 35.0 | 88 | 35.4 | 89 | 1 | 82-120/20 |
| 75-09-2 | Methylene chloride | 40 | 31.8 | 80 | 32.7 | 82 | 3 | 75-119/20 |
| 78-93-3 | Methyl ethyl ketone | 160 | 131 | 82 | 136 | 85 | 4 | 71-130/22 |
| 1634-04-4 | Methyl Tert Butyl Ether | 40 | 33.5 | 84 | 34.5 | 86 | 3 | 79-127/19 |
| 91-20-3 | Naphthalene | 40 | 37.4 | 94 | 38.4 | 96 | 3 | 78-125/23 |
| 103-65-1 | n-Propylbenzene | 40 | 37.6 | 94 | 37.3 | 93 | 1 | 79-124/22 |
| 100-42-5 | Styrene | 40 | 35.0 | 88 | 36.3 | 91 | 4 | 83-122/21 |
| 994-05-8 | Tert-Amyl Methyl Ether | 40 | 33.5 | 84 | 34.5 | 86 | 3 | 80-127/20 |
| 75-65-0 | Tert Butyl Alcohol | 200 | 160 | 80 | 165 | 83 | 3 | 65-144/23 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 40 | 36.8 | 92 | 38.7 | 97 | 5 | 82-123/21 |
| 71-55-6 | 1,1,1-Trichloroethane | 40 | 34.7 | 87 | 35.0 | 88 | 1 | 79-129/21 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 40 | 36.7 | 92 | 37.1 | 93 | 1 | 77-126/20 |
| 79-00-5 | 1,1,2-Trichloroethane | 40 | 36.1 | 90 | 37.1 | 93 | 3 | 79-123/20 |
| 87-61-6 | 1,2,3-Trichlorobenzene | 40 | 38.8 | 97 | 38.7 | 97 | 0 | 81-122/26 |
| 96-18-4 | 1,2,3-Trichloropropane | 40 | 41.9 | 105 | 43.0 | 108 | 3 | 79-122/24 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 40 | 38.9 | 97 | 39.1 | 98 | 1 | 81-121/26 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 40 | 37.1 | 93 | 37.2 | 93 | 0 | 82-121/24 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 40 | 37.0 | 93 | 37.1 | 93 | 0 | 81-123/23 |
| 127-18-4 | Tetrachloroethylene | 40 | 35.4 | 89 | 38.2 | 96 | 8 | 80-125/25 |
| 108-88-3 | Toluene | 40 | 35.4 | 89 | 36.8 | 92 | 4 | 80-117/21 |
| 79-01-6 | Trichloroethylene | 40 | 35.0 | 88 | 34.7 | 87 | 1 | 81-122/20 |
| 75-69-4 | Trichlorofluoromethane | 40 | 35.6 | 89 | 34.9 | 87 | 2 | 77-133/22 |
| 75-01-4 | Vinyl chloride | 40 | 37.7 | 94 | 36.9 | 92 | 2 | 71-133/23 |
| 1330-20-7 | Xylene (total) | 120 | 109 | 91 | 112 | 93 | 3 | 81-122/22 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|-----------|----------------------|-----|-----|---------|
| 1868-53-7 | Dibromofluoromethane | 96% | 98% | 70-130% |

* = Outside of Control Limits.

5.2.1
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C39925
Account: BMECASF Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|----------|----|----------|----|-----------|------------|------------------|
| VL1244-BS | L41445.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| VL1244-BSD | L41446.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

The QC reported here applies to the following samples:

Method: SW846 8260B

C39925-1

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|-----------|----------------------|------|------|---------|
| 2037-26-5 | Toluene-D8 | 102% | 103% | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | 98% | 70-130% |

(a) Outside laboratory control limits (high low); but within marginal exceedence criteria.

* = Outside of Control Limits.

Laboratory Control Sample Summary

Job Number: C39925
Account: BMECASF Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|----------|----|----------|----|-----------|------------|------------------|
| VL1244-LCS | L41447.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

The QC reported here applies to the following samples:

Method: SW846 8260B

C39925-1

| CAS No. | Compound | Spike ug/kg | LCS ug/kg | LCS % | Limits |
|---------|------------------|----------------|--------------|----------|--------|
| | TPH-GRO (C6-C10) | 250 | 233 | 93 | 50-121 |

| CAS No. | Surrogate Recoveries | BSP | Limits |
|-----------|----------------------|------|---------|
| 1868-53-7 | Dibromofluoromethane | 93% | 70-130% |
| 2037-26-5 | Toluene-D8 | 105% | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | 70-130% |

* = Outside of Control Limits.

5.3.1
 5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C39925

Account: BMECASF Burns and McDonnell Engineering

Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|----------|----|----------|----|-----------|------------|------------------|
| C39925-1MS | L41450.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| C39925-1MSD | L41451.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| C39925-1 | L41449.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| C39925-1 | L41457.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

The QC reported here applies to the following samples:

Method: SW846 8260B

C39925-1

| CAS No. | Compound | C39925-1 ug/kg | Spike Q | MS ug/kg | MS % | Spike ug/kg | MSD ug/kg | MSD % | RPD | Limits Rec/RPD | |
|------------|-----------------------------|-------------------|------------|-------------|---------|------------------|--------------|----------|------------------|-------------------|-----------|
| 67-64-1 | Acetone | 652 ^b | | 158 | 653 | 1* ^a | 160 | 669 | 11* ^a | 2 | 62-130/24 |
| 71-43-2 | Benzene | ND | | 39.6 | 33.8 | 85 | 40 | 33.4 | 84 | 1 | 81-119/20 |
| 108-86-1 | Bromobenzene | ND | | 39.6 | 32.1 | 81 | 40 | 30.7 | 77* ^c | 4 | 79-120/22 |
| 74-97-5 | Bromochloromethane | ND | | 39.6 | 34.2 | 86 | 40 | 33.6 | 84 | 2 | 81-120/19 |
| 75-27-4 | Bromodichloromethane | ND | | 39.6 | 29.8 | 75* ^c | 40 | 27.4 | 69* ^c | 8 | 79-124/20 |
| 75-25-2 | Bromoform | ND | | 39.6 | 33.6 | 85 | 40 | 32.5 | 81 | 3 | 76-128/21 |
| 104-51-8 | n-Butylbenzene | ND | | 39.6 | 29.1 | 73* ^c | 40 | 24.4 | 61* ^c | 18 | 79-123/26 |
| 135-98-8 | sec-Butylbenzene | ND | | 39.6 | 30.1 | 76* ^c | 40 | 26.2 | 66* ^c | 14 | 77-122/24 |
| 98-06-6 | tert-Butylbenzene | ND | | 39.6 | 30.2 | 76* ^c | 40 | 27.1 | 68* ^c | 11 | 77-121/23 |
| 108-90-7 | Chlorobenzene | ND | | 39.6 | 33.9 | 86 | 40 | 32.4 | 81* ^c | 5 | 82-121/20 |
| 75-00-3 | Chloroethane | ND | | 39.6 | 30.3 | 77* ^c | 40 | 31.2 | 78* ^c | 3 | 80-126/21 |
| 67-66-3 | Chloroform | ND | | 39.6 | 34.5 | 87 | 40 | 33.8 | 85 | 2 | 82-123/20 |
| 95-49-8 | o-Chlorotoluene | ND | | 39.6 | 32.9 | 83 | 40 | 28.6 | 72* ^c | 14 | 78-125/25 |
| 106-43-4 | p-Chlorotoluene | ND | | 39.6 | 32.2 | 81 | 40 | 29.2 | 73* ^c | 10 | 75-125/26 |
| 56-23-5 | Carbon tetrachloride | ND | | 39.6 | 34.9 | 88 | 40 | 31.9 | 80* ^c | 9 | 82-127/22 |
| 75-34-3 | 1,1-Dichloroethane | ND | | 39.6 | 32.8 | 83 | 40 | 32.6 | 82 | 1 | 80-123/20 |
| 75-35-4 | 1,1-Dichloroethylene | ND | | 39.6 | 39.9 | 101 | 40 | 41.0 | 103 | 3 | 76-123/19 |
| 563-58-6 | 1,1-Dichloropropene | ND | | 39.6 | 33.5 | 85 | 40 | 31.9 | 80 | 5 | 79-123/20 |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | | 39.6 | 24.1 | 61* ^c | 40 | 22.0 | 55* ^c | 9 | 64-133/23 |
| 106-93-4 | 1,2-Dibromoethane | ND | | 39.6 | 34.8 | 88 | 40 | 34.8 | 87 | 0 | 80-120/20 |
| 107-06-2 | 1,2-Dichloroethane | ND | | 39.6 | 36.3 | 92 | 40 | 35.8 | 90 | 1 | 76-132/21 |
| 78-87-5 | 1,2-Dichloropropane | ND | | 39.6 | 32.8 | 83 | 40 | 32.3 | 81 | 2 | 80-121/20 |
| 142-28-9 | 1,3-Dichloropropane | ND | | 39.6 | 37.2 | 94 | 40 | 37.0 | 93 | 1 | 78-120/20 |
| 108-20-3 | Di-Isopropyl ether | ND | | 39.6 | 32.4 | 82 | 40 | 32.2 | 81 | 1 | 78-126/19 |
| 594-20-7 | 2,2-Dichloropropane | ND | | 39.6 | 35.1 | 89 | 40 | 33.5 | 84 | 5 | 77-132/22 |
| 124-48-1 | Dibromochloromethane | ND | | 39.6 | 31.9 | 81 | 40 | 30.0 | 75* ^c | 6 | 76-121/21 |
| 75-71-8 | Dichlorodifluoromethane | ND | | 39.6 | 39.7 | 100 | 40 | 39.6 | 99 | 0 | 51-135/23 |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | | 39.6 | 32.9 | 83 | 40 | 32.6 | 82 | 1 | 79-123/20 |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | | 39.6 | 29.9 | 75* ^c | 40 | 28.1 | 70* ^c | 6 | 81-124/21 |
| 541-73-1 | m-Dichlorobenzene | ND | | 39.6 | 30.4 | 77* ^c | 40 | 28.3 | 71* ^c | 7 | 79-123/23 |
| 95-50-1 | o-Dichlorobenzene | ND | | 39.6 | 31.1 | 79 | 40 | 28.8 | 72* ^c | 8 | 79-124/22 |
| 106-46-7 | p-Dichlorobenzene | ND | | 39.6 | 30.8 | 78* ^c | 40 | 28.4 | 71* ^c | 8 | 79-123/22 |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | | 39.6 | 32.4 | 82 | 40 | 31.0 | 78 | 4 | 78-120/19 |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | | 39.6 | 31.6 | 80* ^c | 40 | 30.0 | 75* ^c | 5 | 81-123/22 |
| 100-41-4 | Ethylbenzene | ND | | 39.6 | 34.0 | 86 | 40 | 31.9 | 80 | 6 | 80-119/21 |
| 637-92-3 | Ethyl tert-Butyl Ether | ND | | 39.6 | 33.9 | 86 | 40 | 33.8 | 85 | 0 | 75-132/21 |

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C39925

Account: BMECASFS Burns and McDonnell Engineering

Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|----------|----|----------|----|-----------|------------|------------------|
| C39925-1MS | L41450.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| C39925-1MSD | L41451.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| C39925-1 | L41449.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| C39925-1 | L41457.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

The QC reported here applies to the following samples:

Method: SW846 8260B

C39925-1

| CAS No. | Compound | C39925-1 ug/kg | Spike Q ug/kg | MS ug/kg | MS % | Spike ug/kg | MSD ug/kg | MSD % | RPD | Limits Rec/RPD |
|-----------|---------------------------|-------------------|---------------------|-------------|---------|----------------|--------------|----------|-------|-------------------|
| 591-78-6 | 2-Hexanone | ND | 158 | 154 | 97 | 160 | 156 | 98 | 1 | 68-139/24 |
| 87-68-3 | Hexachlorobutadiene | ND | 39.6 | 23.1 | 58* c | 40 | 16.1 | 40* c | 36* c | 81-126/32 |
| 98-82-8 | Isopropylbenzene | ND | 39.6 | 33.1 | 84 | 40 | 30.3 | 76* c | 9 | 81-122/22 |
| 99-87-6 | p-Isopropyltoluene | ND | 39.6 | 29.9 | 75* c | 40 | 26.0 | 65* c | 14 | 81-121/23 |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 158 | 120 | 76 | 160 | 126 | 79 | 5 | 74-136/23 |
| 74-83-9 | Methyl bromide | ND | 39.6 | 30.2 | 76* c | 40 | 30.0 | 75* c | 1 | 82-124/20 |
| 74-87-3 | Methyl chloride | ND | 39.6 | 34.4 | 87 | 40 | 40.1 | 100 | 15 | 60-132/26 |
| 74-95-3 | Methylene bromide | ND | 39.6 | 33.7 | 85 | 40 | 34.0 | 85 | 1 | 82-120/20 |
| 75-09-2 | Methylene chloride | ND | 39.6 | 31.9 | 81 | 40 | 31.8 | 80 | 0 | 75-119/20 |
| 78-93-3 | Methyl ethyl ketone | 956 ^b | 158 | 952 | -3* a | 160 | 983 | 17* a | 3 | 71-130/22 |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 39.6 | 31.6 | 80 | 40 | 31.8 | 80 | 1 | 79-127/19 |
| 91-20-3 | Naphthalene | ND | 39.6 | 28.6 | 72* c | 40 | 27.1 | 68* c | 5 | 78-125/23 |
| 103-65-1 | n-Propylbenzene | ND | 39.6 | 31.1 | 79 | 40 | 28.3 | 71* c | 9 | 79-124/22 |
| 100-42-5 | Styrene | ND | 39.6 | 31.9 | 81* c | 40 | 30.1 | 75* c | 6 | 83-122/21 |
| 994-05-8 | Tert-Amyl Methyl Ether | ND | 39.6 | 33.8 | 85 | 40 | 33.7 | 84 | 0 | 80-127/20 |
| 75-65-0 | Tert Butyl Alcohol | ND | 198 | 149 | 75 | 200 | 169 | 85 | 13 | 65-144/23 |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 39.6 | 34.1 | 86 | 40 | 32.4 | 81* c | 5 | 82-123/21 |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 39.6 | 35.1 | 89 | 40 | 33.4 | 84 | 5 | 79-129/21 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 39.6 | 9.8 | 25* c | 40 | 10.1 | 25* c | 3 | 77-126/20 |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 39.6 | 27.2 | 69* c | 40 | 24.9 | 62* c | 9 | 79-123/20 |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 39.6 | 28.4 | 72* c | 40 | 24.3 | 61* c | 16 | 81-122/26 |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 39.6 | 38.8 | 98 | 40 | 38.3 | 96 | 1 | 79-122/24 |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 39.6 | 27.7 | 70* c | 40 | 24.3 | 61* c | 13 | 81-121/26 |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 39.6 | 31.0 | 78* c | 40 | 28.2 | 71* c | 9 | 82-121/24 |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 39.6 | 32.2 | 81 | 40 | 29.3 | 73* c | 9 | 81-123/23 |
| 127-18-4 | Tetrachloroethylene | ND | 39.6 | 61.3 | 155* c | 40 | 56.3 | 141* c | 9 | 80-125/25 |
| 108-88-3 | Toluene | ND | 39.6 | 34.7 | 88 | 40 | 33.8 | 85 | 3 | 80-117/21 |
| 79-01-6 | Trichloroethylene | ND | 39.6 | 60.3 | 152* c | 40 | 57.8 | 145* c | 4 | 81-122/20 |
| 75-69-4 | Trichlorofluoromethane | ND | 39.6 | 34.4 | 87 | 40 | 34.0 | 85 | 1 | 77-133/22 |
| 75-01-4 | Vinyl chloride | ND | 39.6 | 40.1 | 101 | 40 | 41.2 | 103 | 3 | 71-133/23 |
| 1330-20-7 | Xylene (total) | ND | 119 | 99.8 | 84 | 120 | 93.8 | 78* c | 6 | 81-122/22 |

| CAS No. | Surrogate Recoveries | MS | MSD | C39925-1 | C39925-1 | Limits |
|-----------|----------------------|---------|---------|----------|----------|---------|
| 1868-53-7 | Dibromofluoromethane | 23% * c | 20% * c | 9% * d | 48% * d | 70-130% |

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C39925
Account: BMECASF Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|----------|----|----------|----|-----------|------------|------------------|
| C39925-1MS | L41450.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| C39925-1MSD | L41451.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| C39925-1 | L41449.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |
| C39925-1 | L41457.D | 1 | 05/20/15 | XB | n/a | n/a | VL1244 |

The QC reported here applies to the following samples:

Method: SW846 8260B

C39925-1

| CAS No. | Surrogate Recoveries | MS | MSD | C39925-1 | C39925-1 | Limits |
|-----------|----------------------|------|------|----------|----------|---------|
| 2037-26-5 | Toluene-D8 | 105% | 104% | 110% | 106% | 70-130% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 99% | 92% | 99% | 70-130% |

- (a) Outside control limits due to high level in sample relative to spike amount.
- (b) Result is from Run #2.
- (c) Outside control limits due to matrix interference.
- (d) Outside control limits due to matrix interference. Confirmed by reanalysis.

* = Outside of Control Limits.

GC/MS Volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L150520\
 Data File : L41449.D
 Acq On : 20 May 2015 3:15 pm
 Operator : XINGB
 Sample : C39925-1
 Misc : MS1865,VL1244,5.00,,,,,1
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 21 10:07:13 2015
 Quant Method : C:\msdchem\1\METHODS\VL1214S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Apr 06 10:01:31 2015
 Response via : Initial Calibration

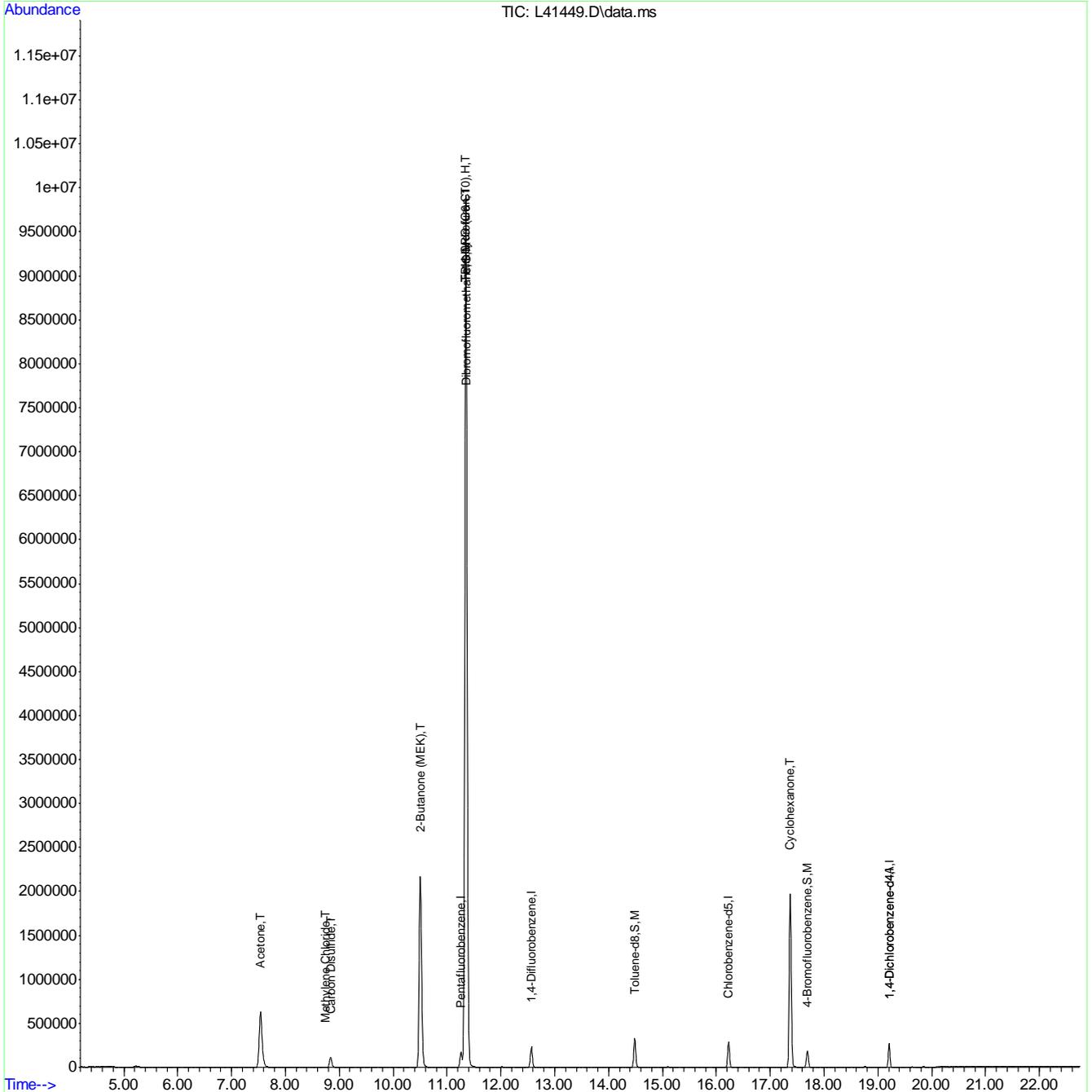
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) | |
|-----------------------------|--------|-------|------------|----------|--------|----------|--------|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 11.264 | 168 | 1662645 | 20.00 | ug/Kg | 0.00 | |
| 39) 1,4-Difluorobenzene | 12.568 | 114 | 2581087 | 20.00 | ug/Kg | 0.00 | |
| 54) Chlorobenzene-d5 | 16.229 | 117 | 2122146 | 20.00 | ug/Kg | 0.00 | |
| 76) 1,4-Dichlorobenzene-d4 | 19.208 | 152 | 897893 | 20.00 | ug/Kg | 0.00 | |
| 98) 1,4-Dichlorobenzene-d4A | 19.208 | 152 | 897893 | 20.00 | ug/Kg | 0.00 | |
| System Monitoring Compounds | | | | | | | |
| 35) Dibromofluoromethane | 11.367 | 111 | 81404 | 1.85 | ug/Kg | 0.00 | |
| Spiked Amount | 20.000 | Range | 70 - 130 | Recovery | = | 9.25%# | |
| 55) Toluene-d8 | 14.488 | 98 | 2974424 | 21.95 | ug/Kg | 0.00 | |
| Spiked Amount | 20.000 | Range | 70 - 130 | Recovery | = | 109.75% | |
| 73) 4-Bromofluorobenzene | 17.691 | 95 | 1081465 | 18.42 | ug/Kg | 0.00 | |
| Spiked Amount | 20.000 | Range | 70 - 130 | Recovery | = | 92.10% | |
| Target Compounds | | | | | | | |
| | | | | | | | Qvalue |
| 11) Acetone | 7.537 | 58 | 4686876 | 843.00 | ug/Kg | | 98 |
| 19) Methylene Chloride | 8.737 | 84 | 34814 | 0.54 | ug/Kg | | 88 |
| 21) Carbon Disulfide | 8.836 | 76 | 2705840 | 14.94 | ug/Kg | | 100 |
| 29) Tetrahydrofuran | 11.351 | 42 | 101069416 | 4285.58 | ug/Kg | | 95 |
| 30) 2-Butanone (MEK) | 10.505 | 72 | 9611003 | 1338.07 | ug/Kg# | | 79 |
| 70) Cyclohexanone | 17.369 | 55 | 13332288 | 5468.91 | ug/Kg | | 97 |
| 99) TPH-GRO (C6-C10) | 11.351 | TIC | 458983438m | 1902.14 | ug/Kg | | |

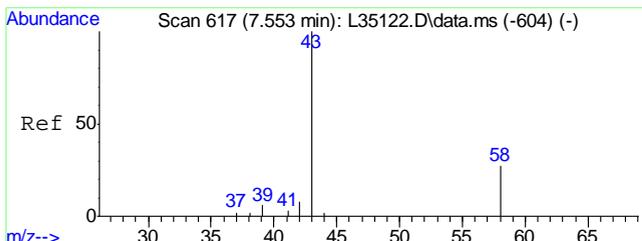
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L150520\
Data File : L41449.D
Acq On : 20 May 2015 3:15 pm
Operator : XINGB
Sample : C39925-1
Misc : MS1865,VL1244,5.00,,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 21 10:07:13 2015
Quant Method : C:\msdchem\1\METHODS\VL1214S.M
Quant Title : EPA -8260B
QLast Update : Mon Apr 06 10:01:31 2015
Response via : Initial Calibration

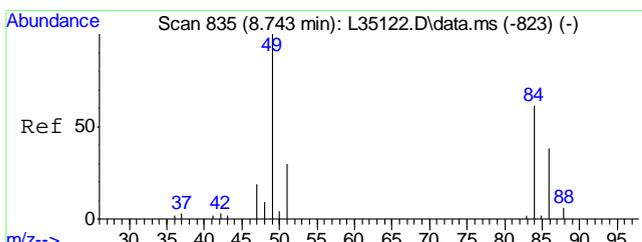
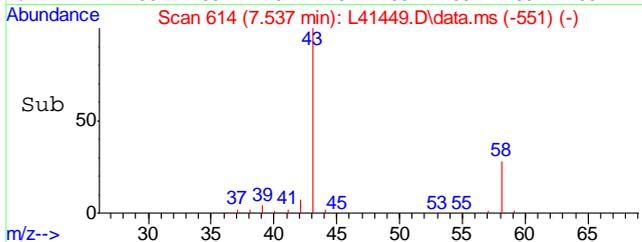
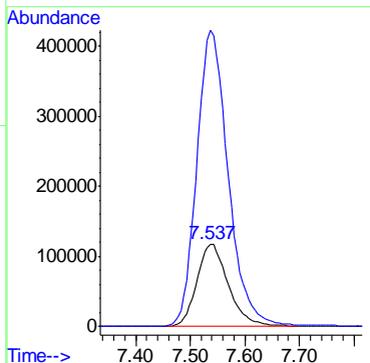
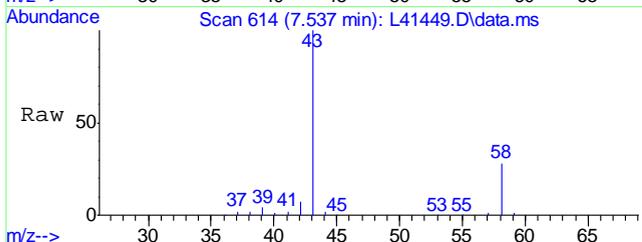




#11
Acetone
Concen: 843.00 ug/Kg
RT: 7.537 min Scan# 614
Delta R.T. -0.005 min
Lab File: L41449.D
Acq: 20 May 2015 3:15 pm

Tgt Ion: 58 Resp: 4686876

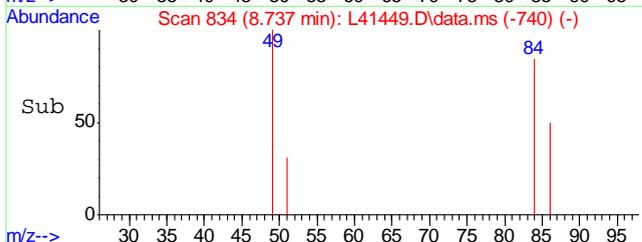
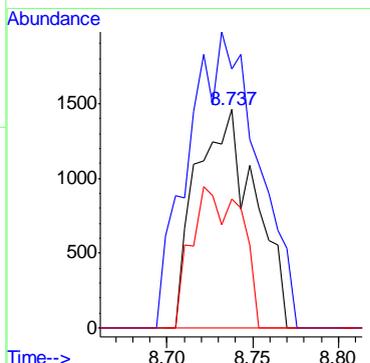
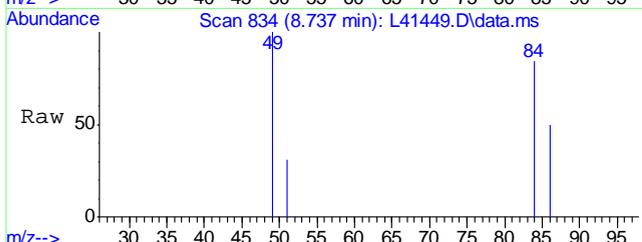
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 58 | 100 | | |
| 43 | 360.3 | 335.3 | 375.3 |

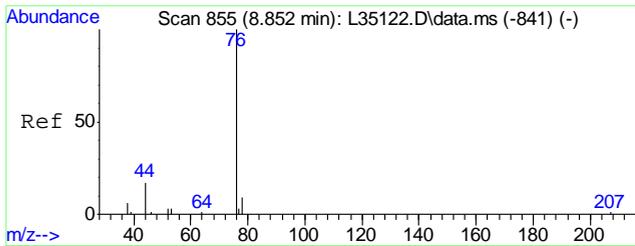


#19
Methylene Chloride
Concen: 0.54 ug/Kg
RT: 8.737 min Scan# 834
Delta R.T. 0.011 min
Lab File: L41449.D
Acq: 20 May 2015 3:15 pm

Tgt Ion: 84 Resp: 34814

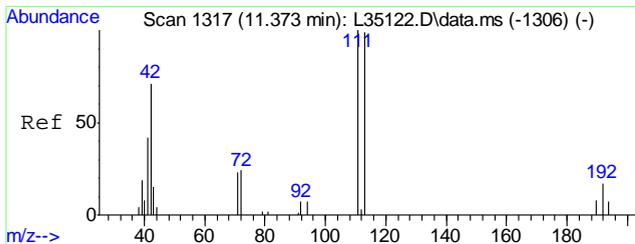
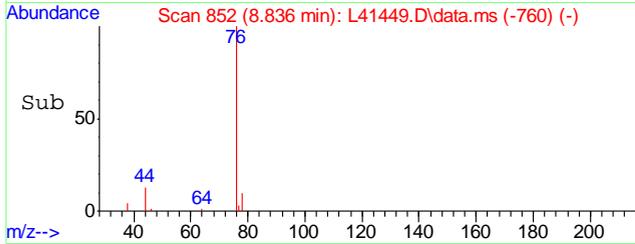
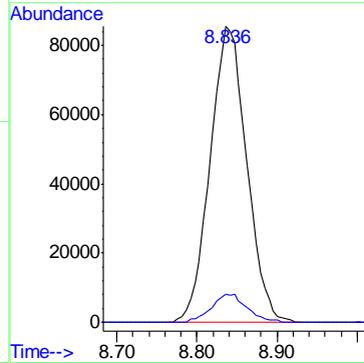
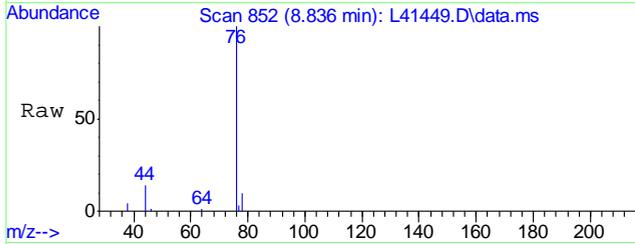
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84 | 100 | | |
| 49 | 160.9 | 125.7 | 165.7 |
| 86 | 55.0 | 43.7 | 83.7 |





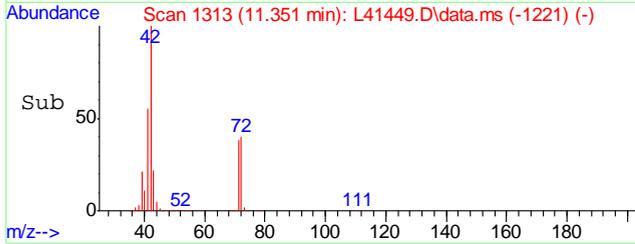
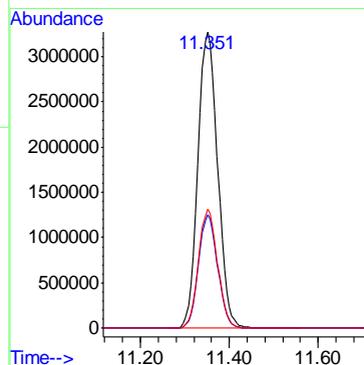
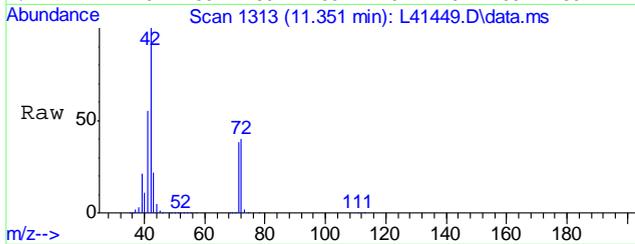
#21
 Carbon Disulfide
 Concen: 14.94 ug/Kg
 RT: 8.836 min Scan# 852
 Delta R.T. 0.000 min
 Lab File: L41449.D
 Acq: 20 May 2015 3:15 pm

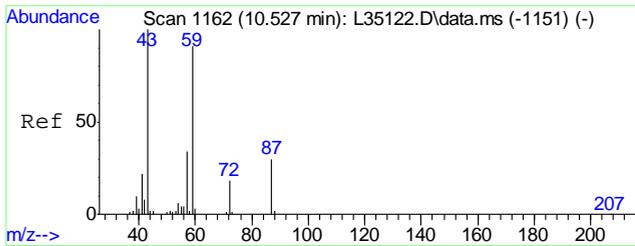
| Tgt Ion | Resp | Lower | Upper |
|---------|---------|-------|-------|
| 76 | 2705840 | 100 | |
| 78 | 9.2 | 0.0 | 29.1 |



#29
 Tetrahydrofuran
 Concen: 4285.58 ug/Kg
 RT: 11.351 min Scan# 1313
 Delta R.T. 0.000 min
 Lab File: L41449.D
 Acq: 20 May 2015 3:15 pm

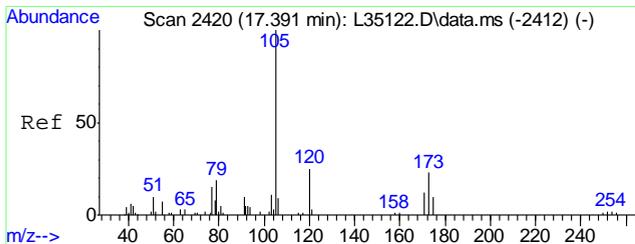
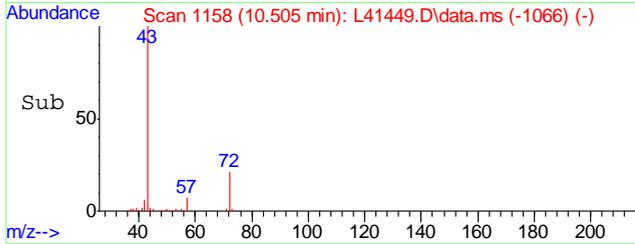
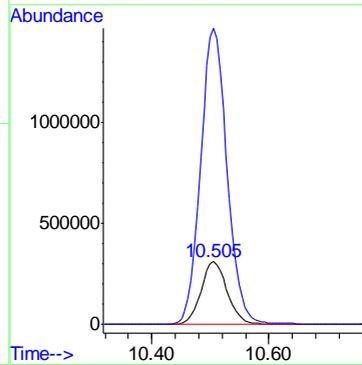
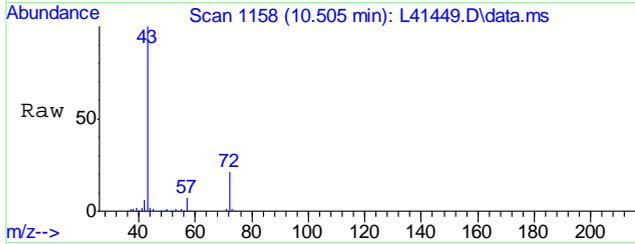
| Tgt Ion | Resp | Lower | Upper |
|---------|-----------|-------|-------|
| 42 | 101069416 | 100 | |
| 71 | 37.1 | 14.3 | 54.3 |
| 72 | 38.8 | 15.7 | 55.7 |





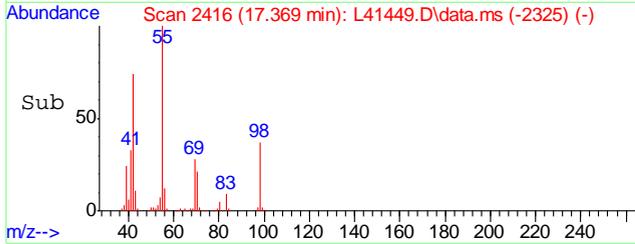
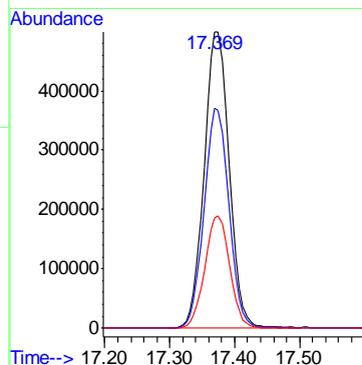
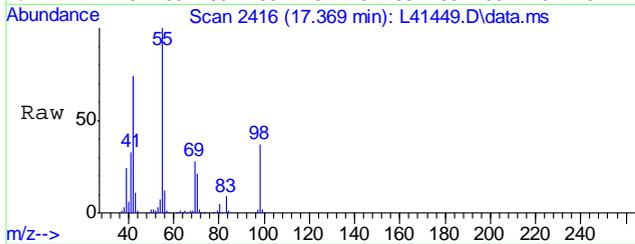
#30
2-Butanone (MEK)
Concen: 1338.07 ug/Kg
RT: 10.505 min Scan# 1158
Delta R.T. 0.000 min
Lab File: L41449.D
Acq: 20 May 2015 3:15 pm

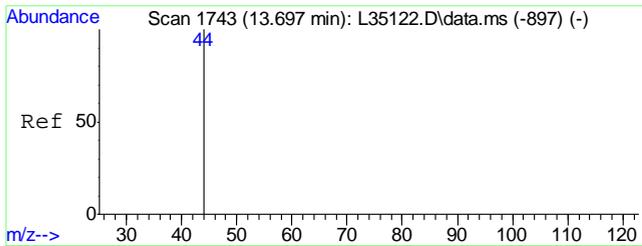
| Tgt Ion | Resp | Lower | Upper |
|---------|---------|-------|--------|
| 72 | 9611003 | | |
| 72 | 100 | | |
| 43 | 479.5 | 521.0 | 561.0# |



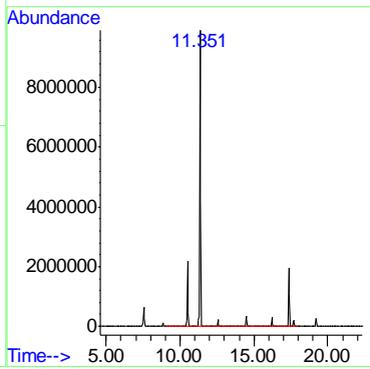
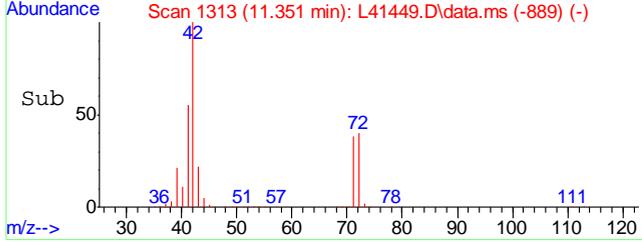
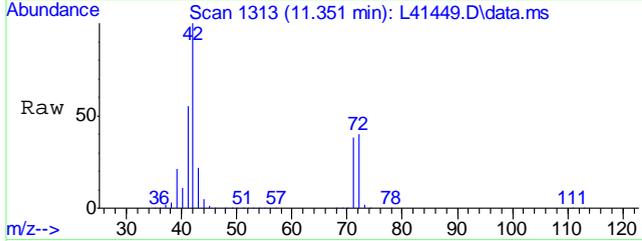
#70
Cyclohexanone
Concen: 5468.91 ug/Kg
RT: 17.369 min Scan# 2416
Delta R.T. -0.005 min
Lab File: L41449.D
Acq: 20 May 2015 3:15 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|----------|-------|-------|
| 55 | 13332288 | | |
| 55 | 100 | | |
| 42 | 74.0 | 50.5 | 90.5 |
| 98 | 37.7 | 17.6 | 57.6 |





#99
TPH-GRO (C6-C10)
Concen: 1902.14 ug/Kg m
RT: 11.351 min Scan# 1313
Delta R.T. -2.349 min
Lab File: L41449.D
Acq: 20 May 2015 3:15 pm
Tgt Ion:TIC Resp:458983438



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L150520\
 Data File : L41457.D
 Acq On : 20 May 2015 7:08 pm
 Operator : XINGB
 Sample : C39925-1
 Misc : MS1865,VL1244,1.24,,,,,1
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 21 10:12:09 2015
 Quant Method : C:\msdchem\1\METHODS\VL1214S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Apr 06 10:01:31 2015
 Response via : Initial Calibration

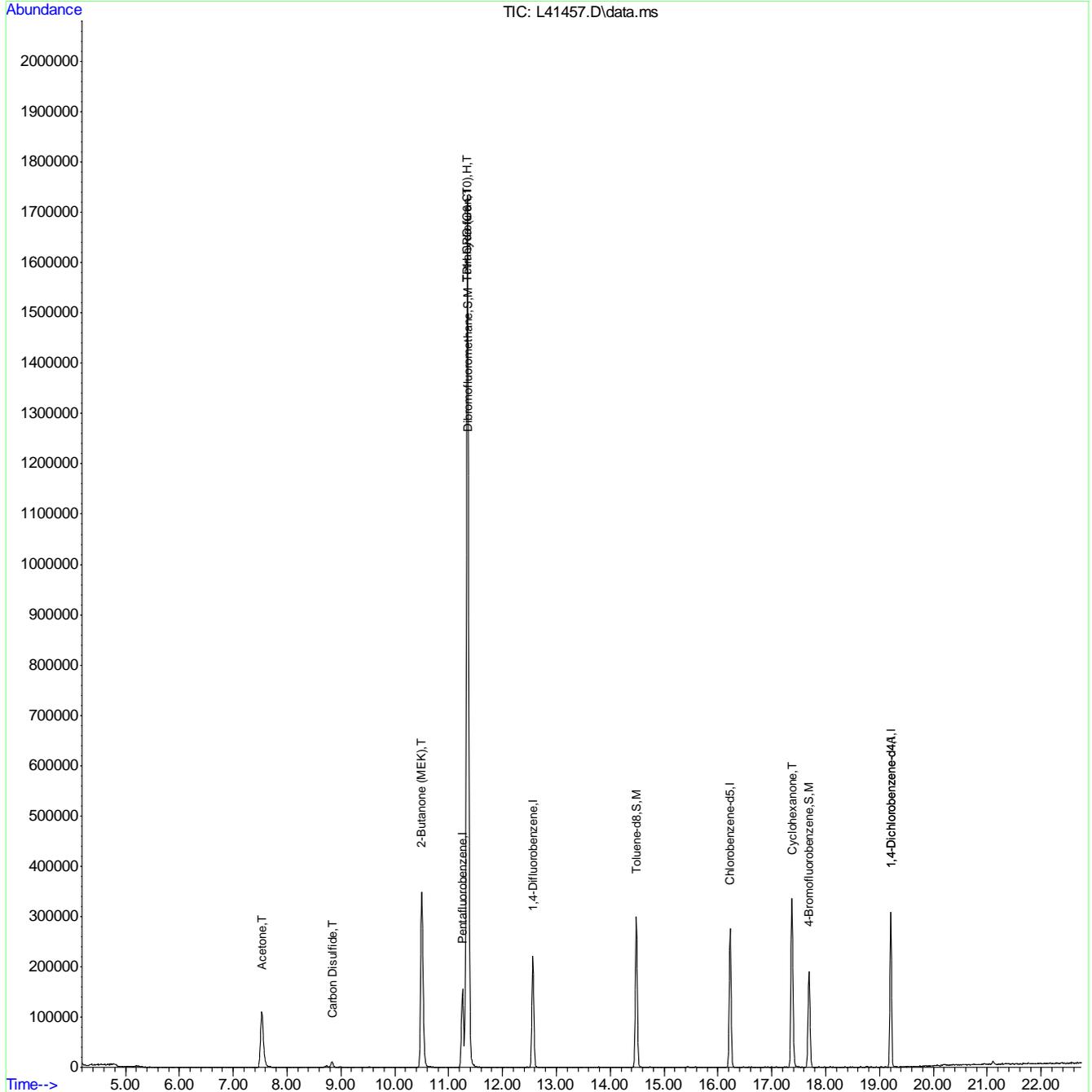
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|--------|-------|------------|----------|--------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 11.258 | 168 | 1487803 | 20.00 | ug/Kg | 0.00 |
| 39) 1,4-Difluorobenzene | 12.562 | 114 | 2298329 | 20.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 16.229 | 117 | 2000688 | 20.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 19.208 | 152 | 1027630 | 20.00 | ug/Kg | 0.00 |
| 98) 1,4-Dichlorobenzene-d4A | 19.208 | 152 | 1027630 | 20.00 | ug/Kg | 0.00 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 11.368 | 111 | 375365 | 9.51 | ug/Kg | 0.00 |
| Spiked Amount | 20.000 | Range | 70 - 130 | Recovery | = | 47.55%# |
| 55) Toluene-d8 | 14.489 | 98 | 2713525 | 21.24 | ug/Kg | 0.00 |
| Spiked Amount | 20.000 | Range | 70 - 130 | Recovery | = | 106.20% |
| 73) 4-Bromofluorobenzene | 17.691 | 95 | 1092014 | 19.73 | ug/Kg | 0.00 |
| Spiked Amount | 20.000 | Range | 70 - 130 | Recovery | = | 98.65% |
| Target Compounds | | | | | | |
| | | | | | | Qvalue |
| 11) Acetone | 7.526 | 58 | 804735 | 161.75 | ug/Kg | 96 |
| 21) Carbon Disulfide | 8.836 | 76 | 246377 | 1.52 | ug/Kg | 94 |
| 29) Tetrahydrofuran | 11.351 | 42 | 17552477 | 831.73 | ug/Kg | 100 |
| 30) 2-Butanone (MEK) | 10.500 | 72 | 1523531 | 237.04 | ug/Kg# | 84 |
| 70) Cyclohexanone | 17.375 | 55 | 2289117 | 996.00 | ug/Kg | 97 |
| 99) TPH-GRO (C6-C10) | 11.351 | TIC | 103400576m | 309.21 | ug/Kg | |

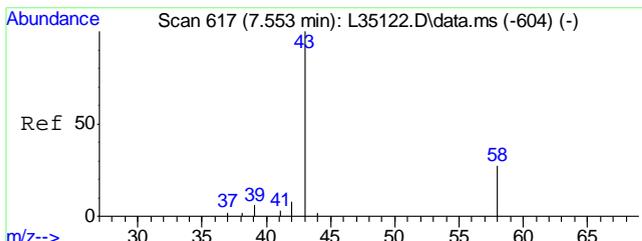
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L150520\
Data File : L41457.D
Acq On : 20 May 2015 7:08 pm
Operator : XINGB
Sample : C39925-1
Misc : MS1865,VL1244,1.24,,,,,1
ALS Vial : 16 Sample Multiplier: 1

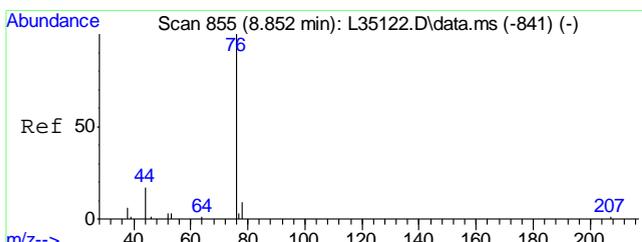
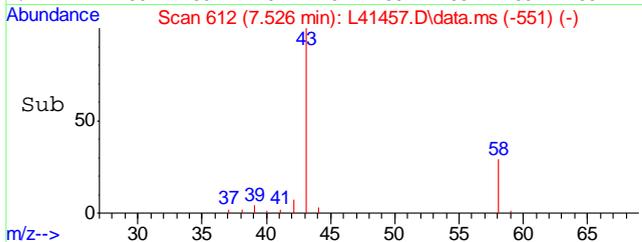
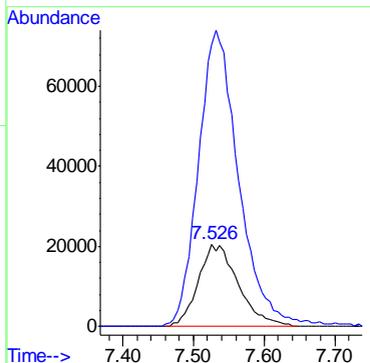
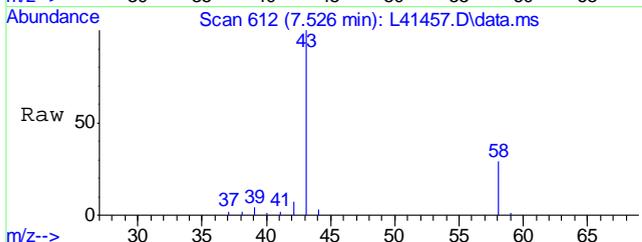
Quant Time: May 21 10:12:09 2015
Quant Method : C:\msdchem\1\METHODS\VL1214S.M
Quant Title : EPA -8260B
QLast Update : Mon Apr 06 10:01:31 2015
Response via : Initial Calibration





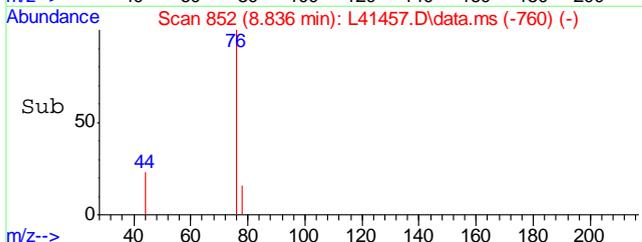
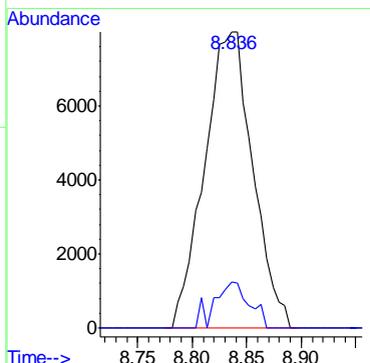
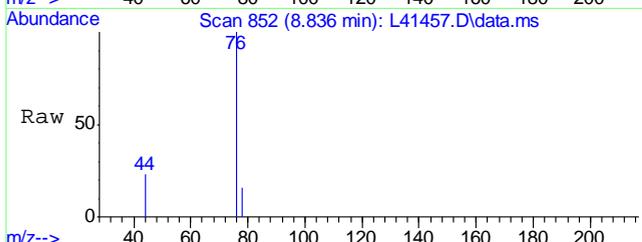
#11
Acetone
Concen: 161.75 ug/Kg
RT: 7.526 min Scan# 612
Delta R.T. -0.016 min
Lab File: L41457.D
Acq: 20 May 2015 7:08 pm

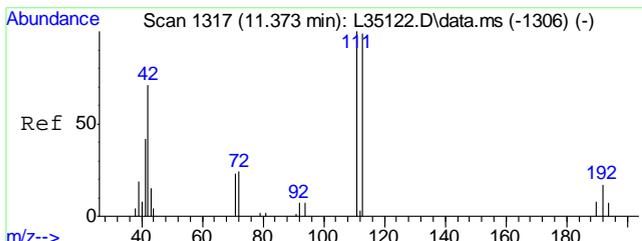
| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 58 | 804735 | | |
| 58 | 100 | | |
| 43 | 364.9 | 335.3 | 375.3 |



#21
Carbon Disulfide
Concen: 1.52 ug/Kg
RT: 8.836 min Scan# 852
Delta R.T. 0.000 min
Lab File: L41457.D
Acq: 20 May 2015 7:08 pm

| Tgt Ion | Resp | Lower | Upper |
|---------|--------|-------|-------|
| 76 | 246377 | | |
| 76 | 100 | | |
| 78 | 11.3 | 0.0 | 29.1 |

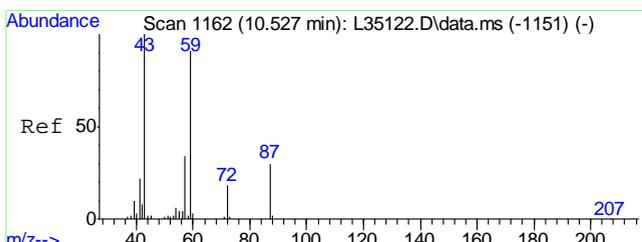
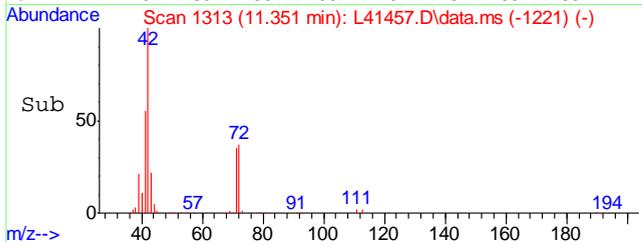
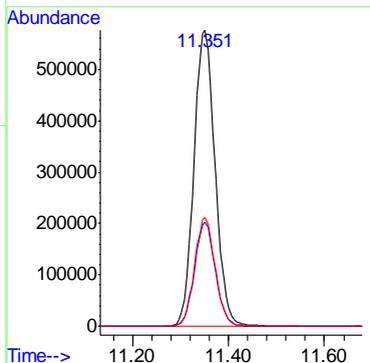
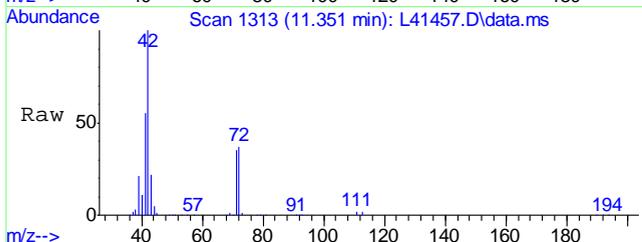




#29
Tetrahydrofuran
Concen: 831.73 ug/Kg
RT: 11.351 min Scan# 1313
Delta R.T. 0.000 min
Lab File: L41457.D
Acq: 20 May 2015 7:08 pm

Tgt Ion: 42 Resp:17552477

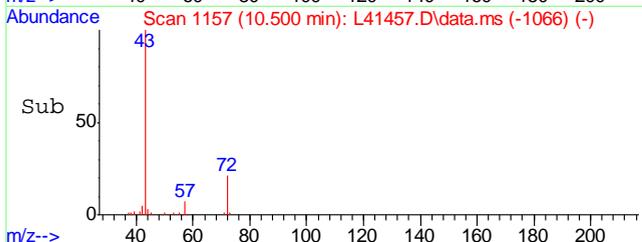
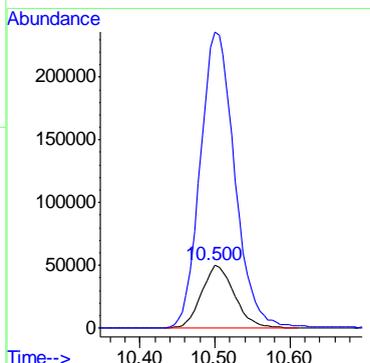
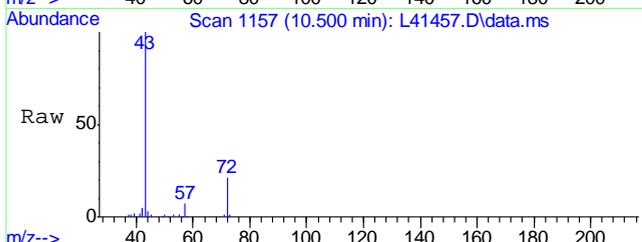
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42 | 100 | | |
| 71 | 34.5 | 14.3 | 54.3 |
| 72 | 35.9 | 15.7 | 55.7 |

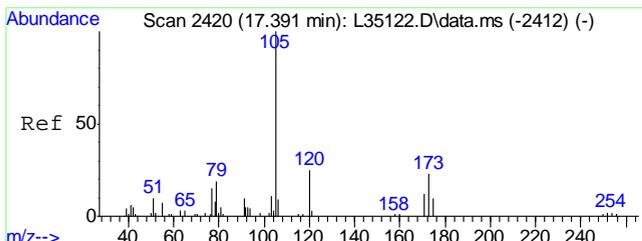


#30
2-Butanone (MEK)
Concen: 237.04 ug/Kg
RT: 10.500 min Scan# 1157
Delta R.T. -0.005 min
Lab File: L41457.D
Acq: 20 May 2015 7:08 pm

Tgt Ion: 72 Resp: 1523531

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|--------|
| 72 | 100 | | |
| 43 | 495.8 | 521.0 | 561.0# |

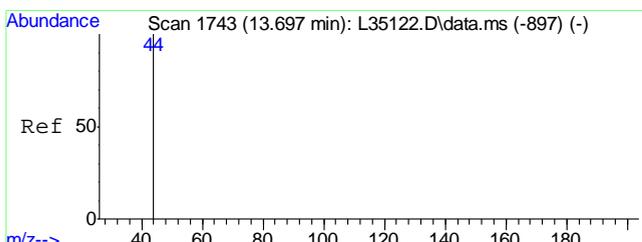
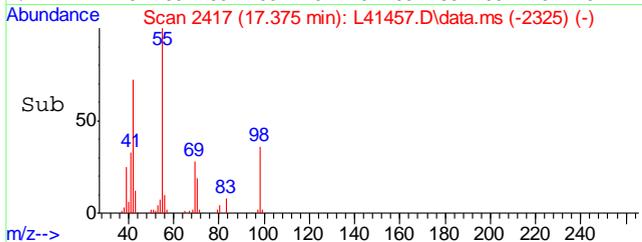
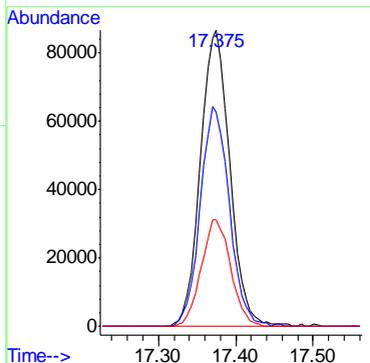
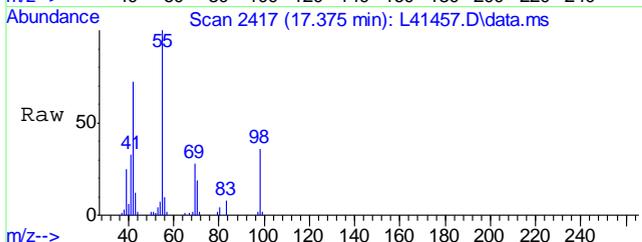




#70
Cyclohexanone
Concen: 996.00 ug/Kg
RT: 17.375 min Scan# 2417
Delta R.T. 0.001 min
Lab File: L41457.D
Acq: 20 May 2015 7:08 pm

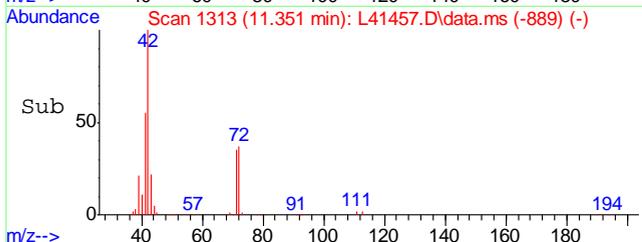
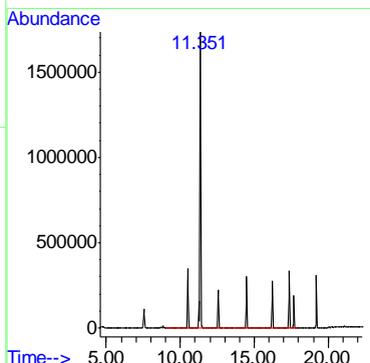
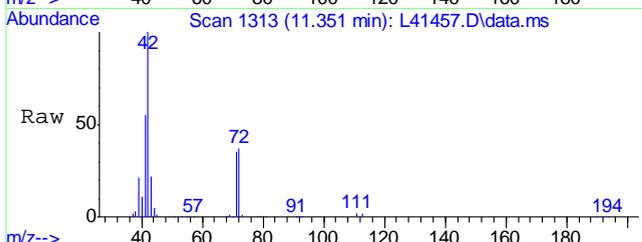
Tgt Ion: 55 Resp: 2289117

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 55 | 100 | | |
| 42 | 73.4 | 50.5 | 90.5 |
| 98 | 36.1 | 17.6 | 57.6 |



#99
TPH-GRO (C6-C10)
Concen: 309.21 ug/Kg m
RT: 11.351 min Scan# 1313
Delta R.T. -2.349 min
Lab File: L41457.D
Acq: 20 May 2015 7:08 pm

Tgt Ion:TIC Resp:103400576



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\L150520\
 Data File : L41448.D
 Acq On : 20 May 2015 2:46 pm
 Operator : XINGB
 Sample : MB
 Misc : MS1850,VL1244,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 09:58:45 2015
 Quant Method : C:\msdchem\1\METHODS\VL1214S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Apr 06 10:01:31 2015
 Response via : Initial Calibration

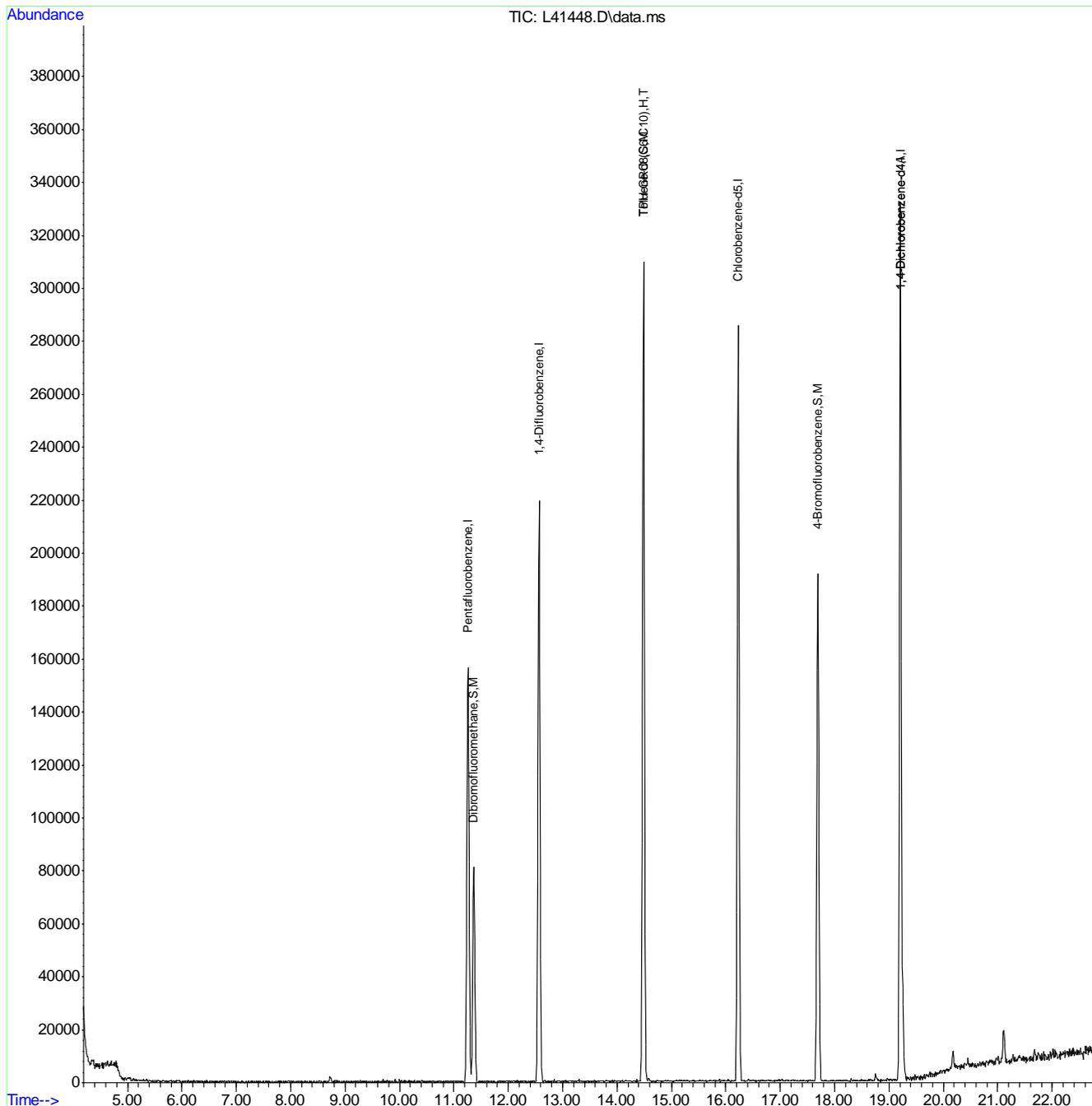
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|--------|-------|-----------|----------|-------|----------|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 11.264 | 168 | 1589138 | 20.00 | ug/Kg | 0.00 |
| 39) 1,4-Difluorobenzene | 12.568 | 114 | 2422158 | 20.00 | ug/Kg | 0.00 |
| 54) Chlorobenzene-d5 | 16.229 | 117 | 2125041 | 20.00 | ug/Kg | 0.00 |
| 76) 1,4-Dichlorobenzene-d4 | 19.208 | 152 | 1098569 | 20.00 | ug/Kg | 0.00 |
| 98) 1,4-Dichlorobenzene-d4A | 19.208 | 152 | 1098569 | 20.00 | ug/Kg | 0.00 |
| System Monitoring Compounds | | | | | | |
| 35) Dibromofluoromethane | 11.367 | 111 | 781473 | 18.54 | ug/Kg | 0.00 |
| Spiked Amount | 20.000 | Range | 70 - 130 | Recovery | = | 92.70% |
| 55) Toluene-d8 | 14.488 | 98 | 2822406 | 20.80 | ug/Kg | 0.00 |
| Spiked Amount | 20.000 | Range | 70 - 130 | Recovery | = | 104.00% |
| 73) 4-Bromofluorobenzene | 17.691 | 95 | 1112627 | 18.92 | ug/Kg | 0.00 |
| Spiked Amount | 20.000 | Range | 70 - 130 | Recovery | = | 94.60% |
| Target Compounds | | | | | | |
| 99) TPH-GRO (C6-C10) | 14.488 | TIC | 34016754m | 38.96 | ug/Kg | Qvalue |

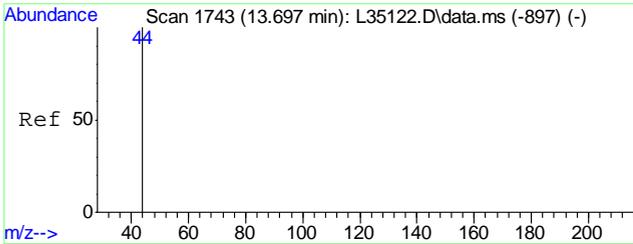
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

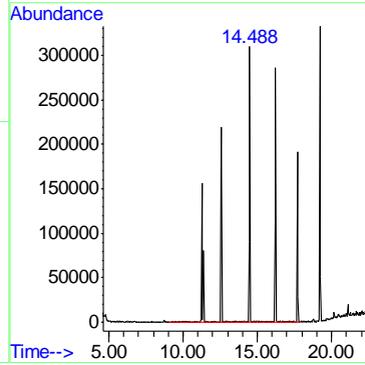
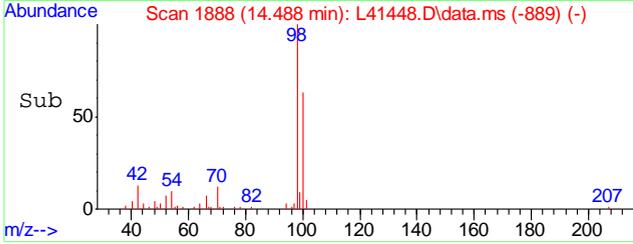
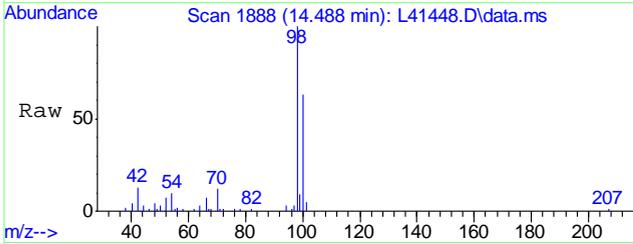
Data Path : C:\msdchem\1\DATA\L150520\
 Data File : L41448.D
 Acq On : 20 May 2015 2:46 pm
 Operator : XINGB
 Sample : MB
 Misc : MS1850,VL1244,5,,,,,1
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 21 09:58:45 2015
 Quant Method : C:\msdchem\1\METHODS\VL1214S.M
 Quant Title : EPA -8260B
 QLast Update : Mon Apr 06 10:01:31 2015
 Response via : Initial Calibration





#99
TPH-GRO (C6-C10)
Concen: 38.96 ug/Kg m
RT: 14.488 min Scan# 1888
Delta R.T. 0.788 min
Lab File: L41448.D
Acq: 20 May 2015 2:46 pm
Tgt Ion:TIC Resp:34016754



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: C39925
Account: BMECASF Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|------------|-----------|----|----------|----|-----------|------------|------------------|
| OP12273-MB | GG58531.D | 1 | 05/21/15 | NN | 05/21/15 | OP12273 | GGG1716 |

The QC reported here applies to the following samples:

Method: SW846 8015B M

C39925-1

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---------|-----------------|--------|-----|------|-------|---|
| | TPH (C10-C28) | ND | 3.3 | 0.83 | mg/kg | |
| | TPH (> C28-C40) | ND | 6.7 | 1.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Limits |
|----------|----------------------|--------------------------|
| 630-01-3 | Hexacosane | 74% ^a 37-122% |

(a) Surrogate recoveries corrected for double spike.

Blank Spike/Blank Spike Duplicate Summary

Job Number: C39925
Account: BMECASF Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP12273-BS | GG58532.D | 1 | 05/21/15 | NN | 05/21/15 | OP12273 | GGG1716 |
| OP12273-BSD | GG58533.D | 1 | 05/21/15 | NN | 05/21/15 | OP12273 | GGG1716 |

The QC reported here applies to the following samples:

Method: SW846 8015B M

C39925-1

| CAS No. | Compound | Spike mg/kg | BSP mg/kg | BSP % | BSD mg/kg | BSD % | RPD | Limits Rec/RPD |
|---------|-----------------|----------------|--------------|----------|--------------|----------|-----|-------------------|
| | TPH (C10-C28) | 33.3 | 27.9 | 84 | 27.6 | 83 | 1 | 39-102/29 |
| | TPH (> C28-C40) | 33.3 | 30.8 | 92 | 31.4 | 94 | 2 | 42-111/26 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|----------|----------------------|------|------|---------|
| 630-01-3 | Hexacosane | 100% | 101% | 37-122% |

* = Outside of Control Limits.

7.2.1
7

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C39925
Account: BMECASF Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

| Sample | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|-------------|-----------|----|----------|----|-----------|------------|------------------|
| OP12273-MS | GG58556.D | 5 | 05/22/15 | NN | 05/21/15 | OP12273 | GGG1717 |
| OP12273-MSD | GG58557.D | 5 | 05/22/15 | NN | 05/21/15 | OP12273 | GGG1717 |
| C39925-1 | GG58555.D | 5 | 05/22/15 | NN | 05/21/15 | OP12273 | GGG1717 |

The QC reported here applies to the following samples:

Method: SW846 8015B M

C39925-1

| CAS No. | Compound | C39925-1 mg/kg | Spike mg/kg | MS mg/kg | MS % | Spike mg/kg | MSD mg/kg | MSD % | RPD | Limits Rec/RPD |
|---------|-----------------|-------------------|----------------|-------------|---------|----------------|--------------|----------|-----|-------------------|
| | TPH (C10-C28) | 30.5 | 33.2 | 59.0 | 86 | 33.1 | 61.8 | 95 | 5 | 39-102/29 |
| | TPH (> C28-C40) | 146 | 33.2 | 187 | 124* a | 33.1 | 216 | 211* a | 14 | 42-111/26 |

| CAS No. | Surrogate Recoveries | MS | MSD | C39925-1 | Limits |
|----------|----------------------|-----|-----|----------|---------|
| 630-01-3 | Hexacosane | 85% | 83% | 98% | 37-122% |

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

7.3.1
 7

GC Semi-volatiles

Raw Data



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1717\GG58555.D Vial: 3
 Acq On : 5-22-15 9:55:06 AM Operator: NHATN
 Sample : C39925-1 Inst : Diesel #2
 Misc : OP12273,GGG1717,30.31,,,1,5,S Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: May 22 10:21 2015 Quant Results File: GGG1696.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1696.M (Chemstation Integrator)
 Title : DRO calibration: Back column
 Last Update : Mon Apr 27 09:46:47 2015
 Response via : Initial Calibration
 DataAcq Meth : ACQ_GG2.M

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm

| Compound | R.T. | Response | Conc Units |
|-----------------------------|--------|------------|--------------|
| System Monitoring Compounds | | | |
| 1) S,M Hexacosane | 11.69f | 30258479 | 19.501 ppm |
| Spiked Amount 100.000 | | Recovery = | 19.50% |
| Target Compounds | | | |
| 2) H,M TPH (C10-C28) | 6.00 | 364824745 | 184.817 ppm |
| 3) H TPH (>C28-C40) | 14.00 | 904388002 | 887.462 ppm |
| 4) H TPH (Mineral Spirits) | 0.00 | 0 | N.D. ppm |
| 5) H TPH (Kerosene) | 0.00 | 0 | N.D. ppm |
| 6) H,M TPH (Diesel) | 0.00 | 0 | N.D. ppm |
| 7) H TPH (Motor Oil) | 14.00 | 1267428317 | 1245.325 ppm |

8.1.1
8

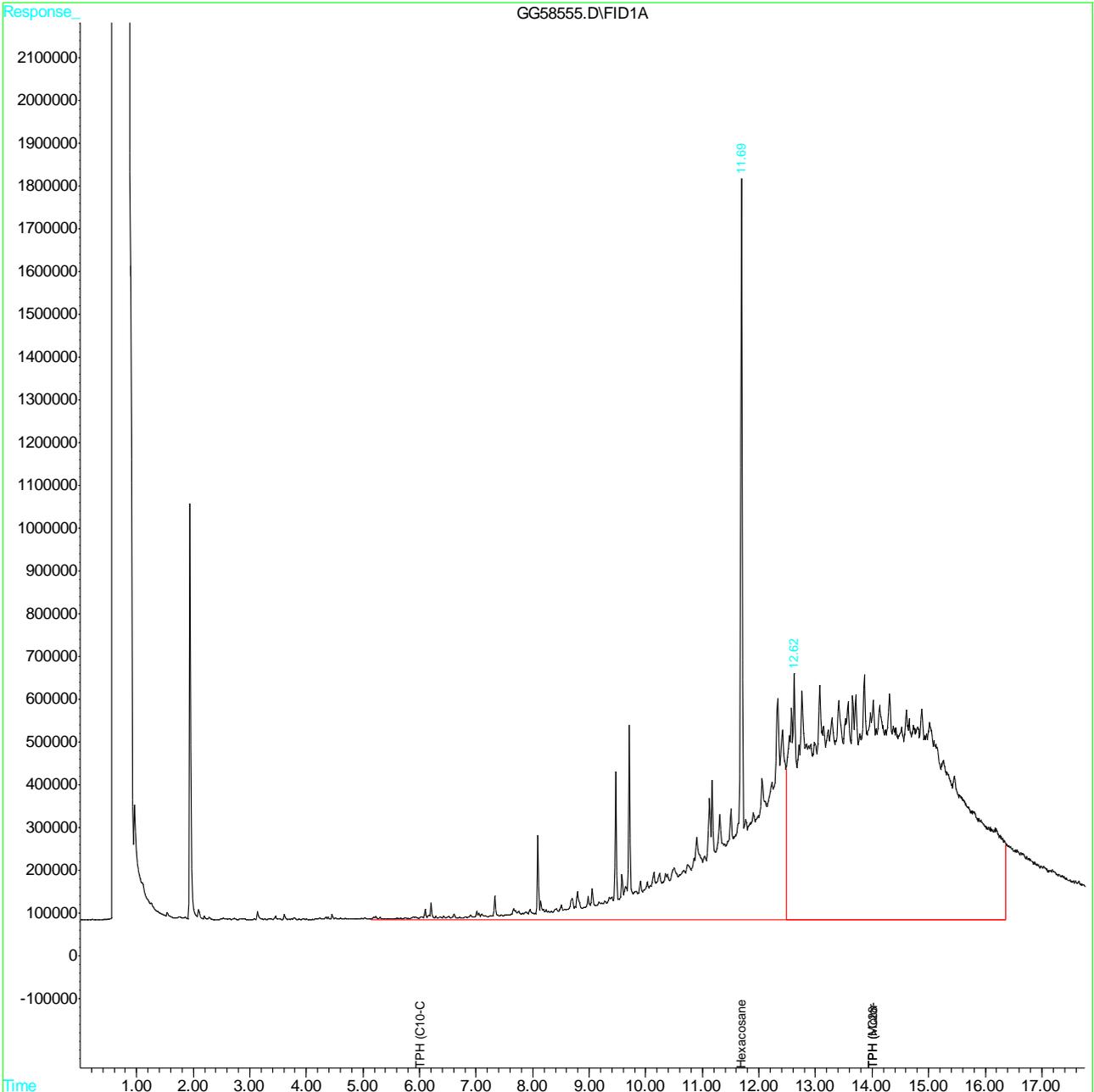
(f)=RT Delta > 1/2 Window (m)=manual int.
 GG58555.D GGG1696.M Fri May 22 13:14:39 2015

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1717\GG58555.D Vial: 3
 Acq On : 5-22-15 9:55:06 AM Operator: NHATN
 Sample : C39925-1 Inst : Diesel #2
 Misc : OP12273,GGG1717,30.31,,,1,5,S Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: May 22 10:21 2015 Quant Results File: GGG1696.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1696.M (Chemstation Integrator)
 Title : DRO calibration: Back column
 Last Update : Mon Apr 27 09:46:47 2015
 Response via : Multiple Level Calibration
 DataAcq Meth : ACQ_GG2.M

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm



8.1.1
8

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1716\GG58531.D Vial: 18
 Acq On : 5-21-15 10:12:03 PM Operator: NHATN
 Sample : OP12273-MB Inst : Diesel #2
 Misc : OP12273,GGG1716,30.00,,,1,1,S Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: May 22 9:10 2015 Quant Results File: GGG1696.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1696.M (Chemstation Integrator)
 Title : DRO calibration: Back column
 Last Update : Mon Apr 27 09:46:47 2015
 Response via : Initial Calibration
 DataAcq Meth : ACQ_GG2.M

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm

| Compound | R.T. | Response | Conc Units |
|-----------------------------|-------|-----------|-------------|
| System Monitoring Compounds | | | |
| 1) S,M Hexacosane | 11.71 | 231734729 | 149.348 ppm |
| Spiked Amount 100.000 | | Recovery | = 149.35% |
| Target Compounds | | | |
| 2) H,M TPH (C10-C28) | 6.00 | 26296630 | 13.322 ppm |
| 3) H TPH (>C28-C40) | 14.00 | 34674774 | 34.026 ppm |
| 4) H TPH (Mineral Spirits) | 0.00 | 0 | N.D. ppm |
| 5) H TPH (Kerosene) | 0.00 | 0 | N.D. ppm |
| 6) H,M TPH (Diesel) | 6.00 | 26296630 | 13.331 ppm |
| 7) H TPH (Motor Oil) | 14.00 | 34674774 | 34.070 ppm |

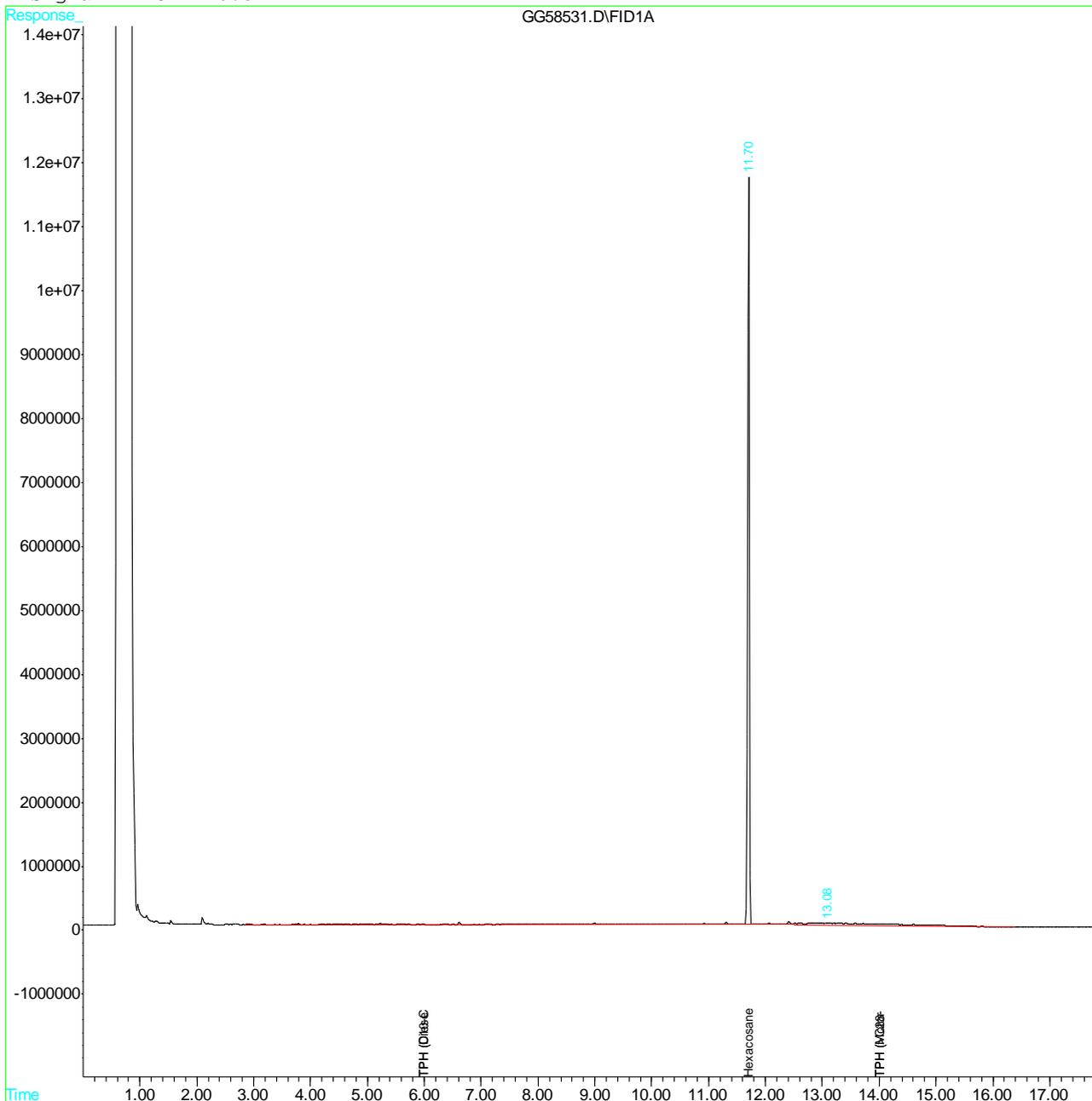
8.2.1
8

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\D#2\DATA\GGG1716\GG58531.D Vial: 18
 Acq On : 5-21-15 10:12:03 PM Operator: NHATN
 Sample : OP12273-MB Inst : Diesel #2
 Misc : OP12273,GGG1716,30.00,,,1,1,S Multiplr: 1.00
 IntFile : autoint1.e
 Quant Time: May 22 9:10 2015 Quant Results File: GGG1696.RES

Quant Method : C:\HPCHEM\D#2\METHODS\GGG1696.M (Chemstation Integrator)
 Title : DRO calibration: Back column
 Last Update : Mon Apr 27 09:46:47 2015
 Response via : Multiple Level Calibration
 DataAcq Meth : ACQ_GG2.M

Volume Inj. : 1.0 uL
 Signal Phase : HP-5
 Signal Info : 0.32 mm



8.2.1
8

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C39925
Account: BMECAF - Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

QC Batch ID: MP9555
Matrix Type: SOLID

Methods: SW846 6010B
Units: mg/kg

Prep Date: 05/21/15

| Metal | RL | IDL | MDL | MB raw | final |
|------------|------|-----|------|-----------|-------|
| Aluminum | 20 | 1.4 | 1.5 | | |
| Antimony | 2.0 | .12 | .18 | 0.070 | <2.0 |
| Arsenic | 2.0 | .16 | .17 | -0.22 | <2.0 |
| Barium | 20 | .02 | .09 | 0.24 | <20 |
| Beryllium | 1.0 | .02 | .01 | -0.010 | <1.0 |
| Boron | 10 | .18 | .15 | | |
| Cadmium | 1.0 | .02 | .031 | 0.010 | <1.0 |
| Calcium | 500 | 2.8 | 4.5 | | |
| Chromium | 1.0 | .04 | .054 | 0.020 | <1.0 |
| Cobalt | 1.0 | .03 | .025 | 0.0 | <1.0 |
| Copper | 2.5 | .12 | .15 | 0.44 | <2.5 |
| Iron | 20 | .53 | .76 | | |
| Lead | 2.0 | .1 | .14 | 0.090 | <2.0 |
| Magnesium | 500 | 1.6 | 2.1 | | |
| Manganese | 1.5 | .02 | .026 | | |
| Molybdenum | 2.0 | .05 | .04 | 0.010 | <2.0 |
| Nickel | 1.0 | .04 | .047 | -0.020 | <1.0 |
| Potassium | 1000 | 3.5 | 4.6 | | |
| Selenium | 2.0 | .17 | .33 | 0.15 | <2.0 |
| Silicon | 20 | .24 | .43 | | |
| Silver | 1.0 | .05 | .067 | -0.020 | <1.0 |
| Sodium | 1000 | 1.1 | 1.2 | | |
| Strontium | 1.0 | .01 | .018 | | |
| Thallium | 2.0 | .17 | .12 | -0.42 | <2.0 |
| Tin | 50 | .08 | .28 | | |
| Titanium | 1.0 | .08 | .13 | | |
| Vanadium | 1.0 | .06 | .074 | -0.020 | <1.0 |
| Zinc | 2.0 | .05 | .22 | 0.60 | <2.0 |

Associated samples MP9555: C39925-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C39925
 Account: BMECASF - Burns and McDonnell Engineering
 Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

QC Batch ID: MP9555
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 05/21/15

| Metal | C39908-1 Original MS | | SpikeLot MPIR5 | % Rec | QC Limits |
|------------|-------------------------|------|-------------------|----------|--------------|
| Aluminum | | | | | |
| Antimony | 0.0 | 13.7 | 46.3 | 29.6N(a) | 75-125 |
| Arsenic | 2.1 | 42.7 | 46.3 | 87.7 | 75-125 |
| Barium | 162 | 196 | 46.3 | 73.4N(a) | 75-125 |
| Beryllium | 0.70 | 41.6 | 46.3 | 88.3 | 75-125 |
| Boron | | | | | |
| Cadmium | 0.24 | 44.6 | 46.3 | 95.8 | 75-125 |
| Calcium | | | | | |
| Chromium | 175 | 208 | 46.3 | 71.3N(a) | 75-125 |
| Cobalt | 24.2 | 62.0 | 46.3 | 81.6 | 75-125 |
| Copper | 61.3 | 99.6 | 46.3 | 82.7 | 75-125 |
| Iron | | | | | |
| Lead | 7.8 | 51.2 | 46.3 | 93.7 | 75-125 |
| Magnesium | | | | | |
| Manganese | | | | | |
| Molybdenum | 0.10 | 37.2 | 46.3 | 80.1 | 75-125 |
| Nickel | 164 | 197 | 46.3 | 71.3N(a) | 75-125 |
| Potassium | | | | | |
| Selenium | 2.6 | 41.3 | 46.3 | 83.6 | 75-125 |
| Silicon | | | | | |
| Silver | 0.37 | 41.1 | 46.3 | 88.0 | 75-125 |
| Sodium | | | | | |
| Strontium | | | | | |
| Thallium | 1.8 | 44.6 | 46.3 | 92.4 | 75-125 |
| Tin | | | | | |
| Titanium | | | | | |
| Vanadium | 120 | 151 | 46.3 | 67.0N(a) | 75-125 |
| Zinc | 68.2 | 102 | 46.3 | 73.0N(a) | 75-125 |

Associated samples MP9555: C39925-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C39925
 Account: BMECASF - Burns and McDonnell Engineering
 Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

QC Batch ID: MP9555
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 05/21/15

| Metal | C39908-1 | | SpikeLot | | MSD | QC |
|------------|----------|------|----------|----------|------|-------|
| | Original | MSD | MPIR5 | % Rec | RPD | Limit |
| Aluminum | | | | | | |
| Antimony | 0.0 | 12.3 | 44.6 | 27.6N(a) | 10.8 | 20 |
| Arsenic | 2.1 | 41.1 | 44.6 | 87.4 | 3.8 | 20 |
| Barium | 162 | 203 | 44.6 | 91.8 | 3.5 | 20 |
| Beryllium | 0.70 | 39.6 | 44.6 | 87.1 | 4.9 | 20 |
| Boron | | | | | | |
| Cadmium | 0.24 | 42.8 | 44.6 | 95.3 | 4.1 | 20 |
| Calcium | | | | | | |
| Chromium | 175 | 211 | 44.6 | 80.6 | 1.4 | 20 |
| Cobalt | 24.2 | 60.6 | 44.6 | 81.5 | 2.3 | 20 |
| Copper | 61.3 | 101 | 44.6 | 88.9 | 1.4 | 20 |
| Iron | | | | | | |
| Lead | 7.8 | 51.1 | 44.6 | 97.0 | 0.2 | 20 |
| Magnesium | | | | | | |
| Manganese | | | | | | |
| Molybdenum | 0.10 | 35.0 | 44.6 | 78.2 | 6.1 | 20 |
| Nickel | 164 | 200 | 44.6 | 80.6 | 1.5 | 20 |
| Potassium | | | | | | |
| Selenium | 2.6 | 39.2 | 44.6 | 82.0 | 5.2 | 20 |
| Silicon | | | | | | |
| Silver | 0.37 | 40.2 | 44.6 | 89.2 | 2.2 | 20 |
| Sodium | | | | | | |
| Strontium | | | | | | |
| Thallium | 1.8 | 42.5 | 44.6 | 91.2 | 4.8 | 20 |
| Tin | | | | | | |
| Titanium | | | | | | |
| Vanadium | 120 | 158 | 44.6 | 85.1 | 4.5 | 20 |
| Zinc | 68.2 | 104 | 44.6 | 80.2 | 1.9 | 20 |

Associated samples MP9555: C39925-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C39925
 Account: BMECASF - Burns and McDonnell Engineering
 Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

QC Batch ID: MP9555
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: mg/kg

Prep Date: 05/21/15

| Metal | BSP Result | Spikelot MPIR5 | % Rec | QC Limits |
|------------|------------|----------------|-------|-----------|
| Aluminum | | | | |
| Antimony | 48.0 | 50 | 96.0 | 80-120 |
| Arsenic | 48.0 | 50 | 96.0 | 80-120 |
| Barium | 48.9 | 50 | 97.8 | 80-120 |
| Beryllium | 48.9 | 50 | 97.8 | 80-120 |
| Boron | | | | |
| Cadmium | 50.4 | 50 | 100.8 | 80-120 |
| Calcium | | | | |
| Chromium | 50.2 | 50 | 100.4 | 80-120 |
| Cobalt | 51.6 | 50 | 103.2 | 80-120 |
| Copper | 48.3 | 50 | 96.6 | 80-120 |
| Iron | | | | |
| Lead | 46.2 | 50 | 92.4 | 80-120 |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | 49.1 | 50 | 98.2 | 80-120 |
| Nickel | 48.1 | 50 | 96.2 | 80-120 |
| Potassium | | | | |
| Selenium | 45.9 | 50 | 91.8 | 80-120 |
| Silicon | | | | |
| Silver | 46.6 | 50 | 93.2 | 80-120 |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | 48.9 | 50 | 97.8 | 80-120 |
| Tin | | | | |
| Titanium | | | | |
| Vanadium | 46.8 | 50 | 93.6 | 80-120 |
| Zinc | 49.8 | 50 | 99.6 | 80-120 |

Associated samples MP9555: C39925-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

9.1.3
 9

SERIAL DILUTION RESULTS SUMMARY

Login Number: C39925
 Account: BMECASF - Burns and McDonnell Engineering
 Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

QC Batch ID: MP9555
 Matrix Type: SOLID

Methods: SW846 6010B
 Units: ug/l

Prep Date: 05/21/15

| Metal | C39908-1 | | %DIF | QC Limits |
|------------|----------|---------|----------|-----------|
| | Original | SDL 1:5 | | |
| Aluminum | | | | |
| Antimony | 0.00 | 0.00 | NC | 0-10 |
| Arsenic | 21.9 | 33.0 | 50.7 (a) | 0-10 |
| Barium | 1700 | 1830 | 7.6 | 0-10 |
| Beryllium | 7.30 | 9.00 | 23.3 (a) | 0-10 |
| Boron | | | | |
| Cadmium | 2.50 | 2.30 | 8.0 | 0-10 |
| Calcium | | | | |
| Chromium | 1840 | 2070 | 12.7*(b) | 0-10 |
| Cobalt | 254 | 301 | 18.3*(b) | 0-10 |
| Copper | 644 | 686 | 6.5 | 0-10 |
| Iron | | | | |
| Lead | 81.8 | 82.2 | 0.5 | 0-10 |
| Magnesium | | | | |
| Manganese | | | | |
| Molybdenum | 1.10 | 0.00 | 100.0(a) | 0-10 |
| Nickel | 1720 | 1680 | 2.0 | 0-10 |
| Potassium | | | | |
| Selenium | 26.8 | 29.4 | 9.7 | 0-10 |
| Silicon | | | | |
| Silver | 3.90 | 4.40 | 12.8 (a) | 0-10 |
| Sodium | | | | |
| Strontium | | | | |
| Thallium | 18.7 | 30.8 | 64.7 (a) | 0-10 |
| Tin | | | | |
| Titanium | | | | |
| Vanadium | 1260 | 1380 | 9.4 | 0-10 |
| Zinc | 716 | 820 | 14.6*(b) | 0-10 |

Associated samples MP9555: C39925-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

(b) Serial dilution indicates possible matrix interference.

9.1.4
9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: C39925
Account: BMECASF - Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

QC Batch ID: MP9563
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 05/21/15

| Metal | RL | IDL | MDL | MB raw | final |
|---------|-------|--------|-------|-----------|--------|
| Mercury | 0.042 | .00035 | .0043 | -0.00088 | <0.042 |

Associated samples MP9563: C39925-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C39925
Account: BMECASF - Burns and McDonnell Engineering
Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

QC Batch ID: MP9563
Matrix Type: SOLID

Methods: SW846 7471A
Units: mg/kg

Prep Date: 05/21/15

| Metal | C39917-1 Original MS | Spike HGPWS1 | lot % Rec | QC Limits |
|-------|-------------------------|-----------------|--------------|--------------|
|-------|-------------------------|-----------------|--------------|--------------|

Mercury 0.0056 0.17 0.159 103.6 75-125

Associated samples MP9563: C39925-1

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: C39925
 Account: BMECASF - Burns and McDonnell Engineering
 Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

QC Batch ID: MP9563
 Matrix Type: SOLID

Methods: SW846 7471A
 Units: mg/kg

Prep Date: 05/21/15

| Metal | C39917-1 Original MSD | Spike lot | HGPWS1 | % Rec | MSD RPD | QC Limit |
|---------|--------------------------|--------------|--------|-------|------------|-------------|
| Mercury | 0.0056 | 0.17 | 0.156 | 105.2 | 0.0 | 20 |

Associated samples MP9563: C39925-1

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: C39925

Account: BMECASF - Burns and McDonnell Engineering

Project: T0600102107-YRC-Roadway Express, 1708 Wood Street, Oakland, CA

QC Batch ID: MP9563

Methods: SW846 7471A

Matrix Type: SOLID

Units: mg/kg

Prep Date: 05/21/15

| Metal | BSP Result | Spikelot HGPWS1 | % Rec | QC Limits |
|---------|---------------|--------------------|-------|--------------|
| Mercury | 0.16 | 0.167 | 96.0 | 80-120 |

Associated samples MP9563: C39925-1

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested



CREATE AMAZING.

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