From:	Yu, Olivia, EMNRD
To:	Alan.Brandon@ghd.com; Naranjo, Mark
Cc:	Ericson, Dean; Bernard.Bockisch@ghd.com; cctofiling@craworld.com
Subject:	RE: Status update for 1RP-4524 (Trunk MC-16) ~COR-11135250~
Date:	Monday, April 2, 2018 8:11:00 AM
Attachments:	approved_deferral_1RP4524_11135250-4Ericson-Remediation Rpt-Trunk MC 16.pdf

Mr. Brandon:

Thank you for the additional data and map, regarding the deferral area, for 1RP-4524. NMOCD approves of the delineation and remediation completed for 1RP-4524. Backfill approval is granted for the excavated area. Please submit photo documentation of the backfilled area.

Like approval from NMSLO required. NMSLO may have additional stipulations.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

From: Alan.Brandon@ghd.com <Alan.Brandon@ghd.com>
Sent: Monday, March 19, 2018 9:04 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Naranjo, Mark <mnaranjo@slo.state.nm.us>
Cc: Ericson, Dean <Dean.Ericson@energyTransfer.com>; Bernard.Bockisch@ghd.com; cctofiling@craworld.com
Subject: RE: Status update for 1RP-4524 (Trunk MC-16) ~COR-11135250~

Olivia,

I have attached an updated drawing showing the vertical delineation at TP-1 that you had asked for. I also attached the laboratory report for the sample collected at 20 feet below ground surface. The area that is shaded in blue is the area for deferral.

Thanks

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]

Sent: Monday, January 29, 2018 9:52 AM
To: Alan Brandon <Alan.Brandon@ghd.com>; Naranjo, Mark <mnaranjo@slo.state.nm.us>
Cc: Ericson, Dean <Dean.Ericson@energyTransfer.com>; Bernard Bockisch <Bernard.Bockisch@ghd.com>; cctofiling@craworld.com
Subject: RE: Status update for 1RP-4524 (Trunk MC-16) ~COR-11135250~

Good morning Mr. Brandon:

NMOCD will grant deferral of remedial activities to the area between Fullerton 6" and Fullerton 16" pipelines, represented in Figure 2, for 1RP-4524 on the condition that complete vertical delineation of BTEX and TPH at TP-1 occur. What is the radius around the pipelines for deferral?

Please confirm or inform for clarification.

Thanks,
Olivia

From: Alan.Brandon@ghd.com [mailto:Alan.Brandon@ghd.com]
Sent: Thursday, January 25, 2018 11:34 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; agroves@slo.state.nm.us; Naranjo, Mark <mnaranjo@slo.state.nm.us>
Cc: Ericson, Dean <Dean.Ericson@energyTransfer.com>; Bernard.Bockisch@ghd.com; cctofiling@craworld.com
Subject: RE: Status update for 1RP-4524 (Trunk MC-16) ~COR-11135250~

Olivia,

Please see responses to your questions below. I have also attached the updated Figure 2. If you have any other questions, please let me know.

Thanks

1. Where was the location of the Btmhol sample? Added location to updated Figure 2.
2. What is the depth of excavation and dimensions of the excavated area? Depth of excavation ranges from 10 to 16 feet deep. Dimensions of the excavation are denoted on the Figure 2.
3. Are the sample depths indicated in Table 1, the depths of delineation trenches or excavation at the sample locations? Depths of excavation unless a side wall sample.
4. Were sidewall confirmation samples taken? TP-1, TP-2, TP-3, TP-9c, TP-10, and TP-6b were collected from the sidewalls.
5. What is the distance proposed for deferral around the pipelines for delineation and/or remediation? The area is shaded blue on the updated Figure 2.
6. Please demarcate on an appropriately scaled map: 1) the paths of the Trunk MC-16, Fullerton 6-inch, and Fullerton 16-inch pipelines; 2) proposed area for variance; 3) depth of excavation or depths if different; and 4) locations and GPS coordinates of confirmatory sidewall and bottom samples. The pipelines have been added to the updated Figure 2. The excavation

depths equate to the sample depths.

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Tuesday, December 19, 2017 9:21 AM
To: Alan Brandon <Alan.Brandon@ghd.com>; agroves@slo.state.nm.us
Cc: Ericson, Dean <Dean.Ericson@energyTransfer.com>; Bernard Bockisch <Bernard.Bockisch@ghd.com>; cctofiling@craworld.com
Subject: RE: Status update for 1RP-4524 (Trunk MC-16) ~COR-11135250~

Mr. Brandon:

Several questions regarding the delineation/remediation report for 1RP-4524:

1. Where was the location of the Btmhol sample?
2. What is the depth of excavation and dimensions of the excavated area?
3. Are the sample depths indicated in Table 1, the depths of delineation trenches or excavation at the sample locations?
4. Were sidewall confirmation samples taken?
5. What is the distance proposed for deferral around the pipelines for delineation and/or remediation?
6. Please demarcate on an appropriately scaled map: 1) the paths of the Trunk MC-16, Fullerton 6-inch, and Fullerton 16-inch pipelines; 2) proposed area for variance; 3) depth of excavation or depths if different; and 4) locations and GPS coordinates of confirmatory sidewall and bottom samples.

Please confirm or inform for clarification.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

From: Alan.Brandon@ghd.com [mailto:Alan.Brandon@ghd.com]
Sent: Thursday, November 16, 2017 9:15 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; agroves@slo.state.nm.us

Cc: Ericson, Dean <Dean.Ericson@energyTransfer.com>; Bernard.Bockisch@ghd.com; cctofiling@craworld.com
Subject: Status update for 1RP-4735 (2A-20"), 1RP-4643 (0-6-1 4"), and 1RP-4524 (Trunk MC-16) ~COR-11135250~

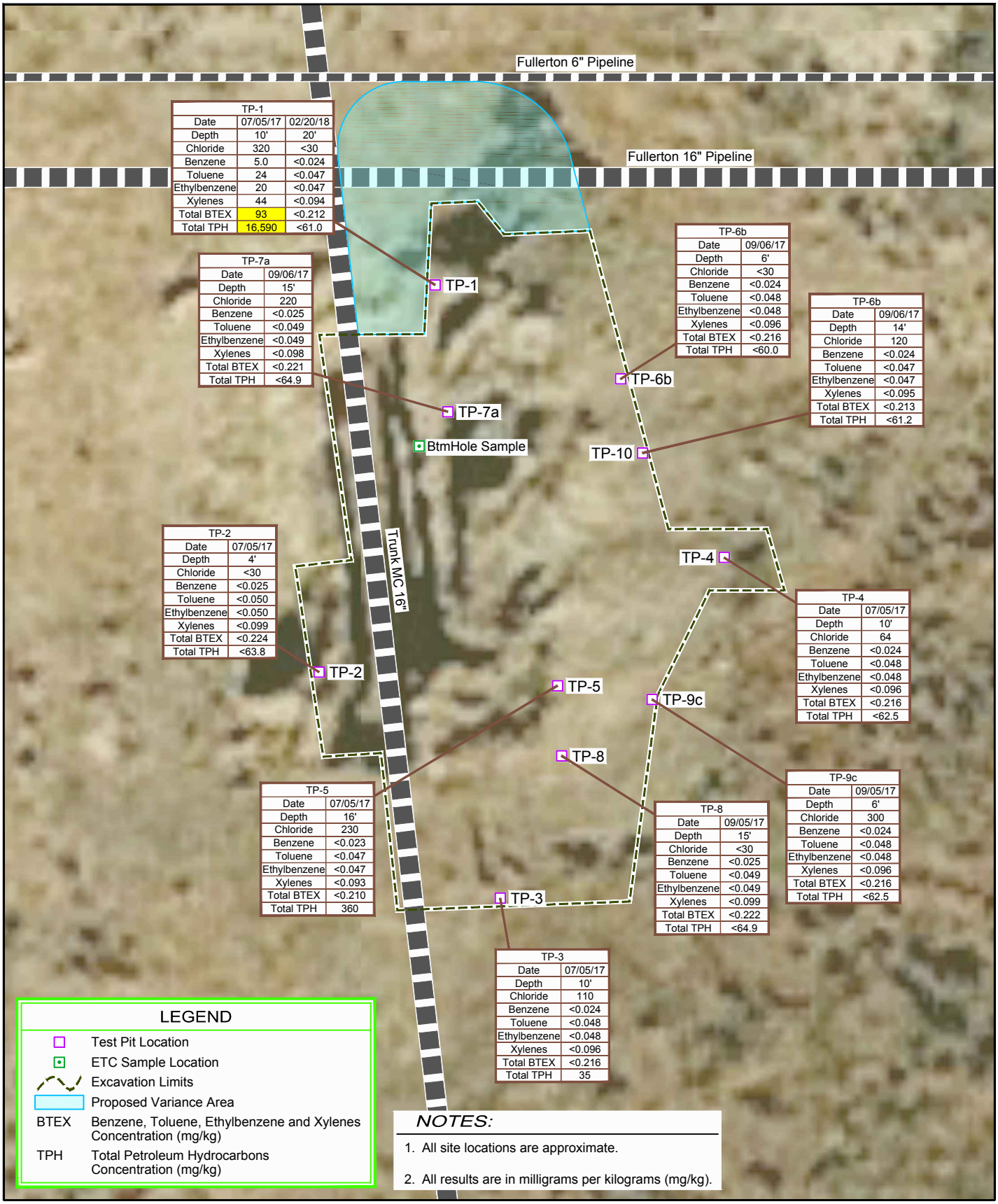
Oliva and Amber,

I have attached the Assessment Summary report for the 0-6-1 4" site and the Remediation Summary report for the Trunk MC 16 sites. We are currently preparing a work plan for additional assessment of the groundwater at the 0-6-1 4" site.

For the 2A-20" site, initial assessment has been performed. We need to dig out two areas where total TPH exceeds the RRAL, collect confirmation samples, and prepare the report.

If you have any questions, please call either myself or Bernie Bockisch.

Thanks



Source: Image © 2017 Google - Imagery Date: February 1, 2017

0 5 10ft

Approximate Scale

ETC FIELD SERVICES
LEA COUNTY, NEW MEXICO
TRUNK MC-16"

11135250-04

Mar 7, 2018

SOIL SAMPLE LOCATION

FIGURE 2

CAD File: I:\CAD\Files\Eight Digit Job Numbers\1113----\11135250-ETC Field Services\11135250-04(000)GN-DL001.dwg

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

March 05, 2018

Bernie Bockisch

GHD
6121 Indian School Road, NE #200
Albuquerque, NM 87110
TEL: (505) 884-0672
FAX

RE: Trunk MC14 OrderNo.: 1802D77

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/27/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order: **1802D77**
Date Reported: **3/5/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD
Project: Trunk MC14
Lab Order: 1802D77

Lab ID: 1802D77-001
Collection Date: 2/20/2018 2:20:00 PM
Client Sample ID: S-11135250-06-022018-JP-TP-1-20
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS						Analyst: **CJS**	
Chloride	ND	30		mg/Kg	20	3/2/2018 4:48:18 PM	36801
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/28/2018 5:37:13 PM	36756
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/28/2018 5:37:13 PM	36756
Surr: DNOP	108	70-130		%Rec	1	2/28/2018 5:37:13 PM	36756
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/28/2018 2:09:25 PM	36745
Surr: BFB	95.9	15-316		%Rec	1	2/28/2018 2:09:25 PM	36745
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	2/28/2018 2:09:25 PM	36745
Toluene	ND	0.047		mg/Kg	1	2/28/2018 2:09:25 PM	36745
Ethylbenzene	ND	0.047		mg/Kg	1	2/28/2018 2:09:25 PM	36745
Xylenes, Total	ND	0.094		mg/Kg	1	2/28/2018 2:09:25 PM	36745
Surr: 4-Bromofluorobenzene	91.6	80-120		%Rec	1	2/28/2018 2:09:25 PM	36745

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802D77**

05-Mar-18

Client: GHD

Project: Trunk MC14

Sample ID	**MB-36801**	SampType:	**mblk**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID:	**36801**	RunNo:	**49514**					
Prep Date:	**3/2/2018**	Analysis Date:	**3/2/2018**	SeqNo:	**1600237**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-36801**	SampType:	**lcs**	TestCode:	**EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID:	**36801**	RunNo:	**49514**					
Prep Date:	**3/2/2018**	Analysis Date:	**3/2/2018**	SeqNo:	**1600238**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802D77**

05-Mar-18

Client: GHD

Project: Trunk MC14

Sample ID	**LCS-36756**	SampType:	**LCS**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**LCSS**	Batch ID:	**36756**		RunNo:	**49444**				
Prep Date:	**2/27/2018**	Analysis Date:	**2/28/2018**		SeqNo:	**1597085**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.7	70	130			
Surr: DNOP	4.1		5.000		81.5	70	130			

Sample ID	**MB-36756**	SampType:	**MBLK**		TestCode:	**EPA Method 8015M/D: Diesel Range Organics**				
Client ID:	**PBS**	Batch ID:	**36756**		RunNo:	**49444**				
Prep Date:	**2/27/2018**	Analysis Date:	**2/28/2018**		SeqNo:	**1597086**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.9		10.00		88.7	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802D77**

05-Mar-18

Client: GHD

Project: Trunk MC14

Sample ID	**MB-36745**	SampType:	**MBLK**	TestCode:	**EPA Method 8015D: Gasoline Range**
Client ID:	**PBS**	Batch ID:	**36745**	RunNo:	**49465**
Prep Date:	**2/27/2018**	Analysis Date:	**2/28/2018**	SeqNo:	**1597509** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	960		1000		96.0	15	316			

Sample ID	**LCS-36745**	SampType:	**LCS**	TestCode:	**EPA Method 8015D: Gasoline Range**
Client ID:	**LCSS**	Batch ID:	**36745**	RunNo:	**49465**
Prep Date:	**2/27/2018**	Analysis Date:	**2/28/2018**	SeqNo:	**1597511** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	112	75.9	131			
Surr: BFB	1200		1000		115	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1802D77**

05-Mar-18

Client: GHD

Project: Trunk MC14

Sample ID	**MB-36745**	SampType:	**MBLK**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID:	**36745**	RunNo:	**49465**					
Prep Date:	**2/27/2018**	Analysis Date:	**2/28/2018**	SeqNo:	**1597547**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.6	80	120			

Sample ID	**LCS-36745**	SampType:	**LCS**	TestCode:	**EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID:	**36745**	RunNo:	**49465**					
Prep Date:	**2/27/2018**	Analysis Date:	**2/28/2018**	SeqNo:	**1597548**	Units:	**mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	105	77.3	128			
Toluene	1.1	0.050	1.000	0	105	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	102	80.7	127			
Xylenes, Total	3.2	0.10	3.000	0	106	81.6	129			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.2	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GHD | Work Order Number: 1802D77 | RcptNo: 1

Received By: Dennis Suazo 2/27/2018 9:15:00 AM

Completed By: Isaiah Ortiz 2/27/2018 10:00:51 AM

Reviewed By: VDS 2/27/18

UP: INW 2/27/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
5. Sample(s) in proper container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
7. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
8. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
9. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: Date:

By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Yes			

Chain-of-Custody Record

Client: GHD

Mailing Address: 6121 Indian School Rd NE Suite 200 Albuquerque NM 87110

Phone #: 505 884 0672

email or Fax#: Bernard.Bockisch@ghd.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: 5 day
☐ Standard ☐ Rush _____

Project Name: Trunk MC-14

Project #: ~~DRAFT~~ 11135250-06

Project Manager: Bernard Bockisch

Sampler:

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1802D77	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)		Chloride 300			Air Bubbles (Y or N)
2-20-18	1420	S	S-11135250-06-022018-TP-TP-1-20	4oz gl-s Jar	ICE	-001			X										X			

Date: Time: Relinquished by: Received by: Date Time 2/26/18 0800

Date: 2/26/18 Time: 1900 Relinquished by: Received by: Date Time 2/27/18 0915

Remarks: Per Alan add BTEX by 8021

pg 3/5

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.