pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

22-16012
Facility I.D.

Sohails Store
Facility Name

Lower Swatara Twp — Municipality
Dauphin — County

02/20/2020
Date Prepared

Doug Kassay
Name of Person Submitting Report
(Please Print)

Keystone Petroleum Equipment, Ltd.
Company Name
(If Applicable)

Operations Specialist
Title

Closure Method*(Check all that apply):

- ☐ UST Removal
- ☐ UST Closure-In-Place
- ☐ UST Change-In-Service

* Partial Closure - Lines and Dispenser Sumps

Site Assessment Results (Check all that apply):

- ☒ No Obvious Contamination - Sample Results Meet Standards/Levels
- ☐ No Obvious Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Meet Standards/Levels
- ☐ Obvious, Localized Contamination - Sample Results Do Not Meet Standards/Levels
- ☐ Obvious, Extensive Contamination

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL CLEANUP AND BROWNFIELDS

DATE RECEIVED: _____

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

Owners who are permanently closing underground storage tank systems may use this form to demonstrate that a storage tank system closure was performed in accordance with technical guidance document 263-4500-601 "Closure Requirements for Underground Storage Tank Systems". PLEASE PRINT OR TYPE. COMPLETE ALL QUESTIONS.

SECTION I. Owner/Facility/Tank/Waste Management and Disposal Information

1. Facility ID Number 22-16012
2. Facility Name Sohails Store
3. Facility County Dauphin
4. Facility Municipality Lower Swatara Twp
5. Facility Address 835 S. Eishenhower Blvd
6. Facility Contact Person Sohail Riarah
7. Facility Telephone Number 717-939-9225
8. Owner Name Riarh Sohail A
9. Owner Mailing Address 835 S. Eishenhower Blvd
10. Description of Underground Storage Tank Systems (Complete for each tank system closed)

DATE OF TANK SYSTEM CLOSURE (Month/Day/Year)		02- 04 -2020	01 - 31 - 2020	01- 31 -2020	- -
Description of Underground Storage Tank System (Complete for each tank system undergoing closure)					
DEP Tank ID Number		006	007	008	
Total Capacity (Gallons)		10,000	8,000	12,000	
Substance(s) Stored Throughout Operating Life of Tank System (Check All That Apply)	**a. Petroleum**				
	Unleaded Gasoline	☐	☒	☒	☐
	Leaded Gasoline	☐	☐	☐	☐
	Aviation Gasoline	☐	☐	☐	☐
	Pure Ethanol	☐	☐	☐	☐
	Blended Ethanol _____%	☐	☐	☐	☐
	Kerosene	☐	☐	☐	☐
	Jet Fuel	☐	☐	☐	☐
	Diesel Fuel	☒	☐	☐	☐
	Biodiesel _____%	☐	☐	☐	☐
	Fuel Oil No. 1	☐	☐	☐	☐
	Fuel Oil No. 2	☐	☐	☐	☐
	Fuel Oil No. 4	☐	☐	☐	☐
	Fuel Oil No. 5	☐	☐	☐	☐
	Fuel Oil No. 6	☐	☐	☐	☐
	New Motor Oil	☐	☐	☐	☐
	Used Motor Oil	☐	☐	☐	☐
	Nonpetroleum Oil, Specify				
	Other, Specify				
NOTE: If Hazardous Substance Block is Checked, Attach Safety Data Sheets (SDS)	**b. Hazardous Substance**	☐	☐	☐	☐
	Name of Principal CERCLA Substance				
	AND				
	Chemical Abstract Service (CAS) No.				
	c. Unknown	☐	☐	☐	☐

CLOSURE METHOD(s):	DEP Tank ID Number:	006	007	008	
Partial Storage Tank System Closure		☒	☒	☒	☐
Tank ☒ N/A	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Piping ☐ N/A	a. Removal	☒	☒	☒	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Dispenser ☒ N/A	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐
Other _____	a. Removal	☐	☐	☐	☐
	b. Closure-in-Place	☐	☐	☐	☐
	c. Change-in-Service	☐	☐	☐	☐

Describe Closure Activities:

Replaced all piping from tanks: 006, 007, 008 to dispensers. Also replaced all dispenser sumps.

Yes **N/A**

11. Briefly describe the storage tank facility and the nature of the operations which were conducted at the facility (both historical and present) **including use of the storage tank systems:**

Convenience store that sells fuel to public.

☒ ☐ 12. A site location and sampling map of the site, drawn to scale, is attached. See page 11 of 11.

☒ ☐ 13. Original, color photographs of the closure process are attached (i.e., inside of excavation/piping runs, pit water, tanks showing condition).

☐ ☒ 14. An amended "Storage Tanks Registration/Permitting Application" Form was submitted to the DEP, Bureau of Environmental Cleanup and Brownfields, Division of Storage Tanks, P.O. Box 8762, Harrisburg, PA 17105-8762.
Date: _____

☒ ☐ 15. If a release was confirmed, the appropriate regional office of DEP was notified by the owner or operator.
Date: 01/31/2020 Office: South Central Office

Yes N/A

☐ ☒ 16. If tanks were cleaned on-site:

a. Briefly describe the disposition of usable product: N/A

b. Briefly describe the disposal of unusable product, sludges, sediments, and wastewater generated during cleaning. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal): N/A

c. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number:

(2) Licensed Hazardous Waste Transporter Name and ID Number:

Piping was drained back to the tank and completely removed by excavation. The piping, approximately 1' appeared to be in good condition with no holes or leaks observed.

☐ ☒ 17. If tanks were removed from the site for cleaning:

a. Provide the name and permit number of the processing, treatment, storage or disposal facility performing the tank cleaning:

b. If tank contents were determined/deemed to be hazardous waste, provide:

(1) Generator ID Number:

(2) Licensed Hazardous Waste Transporter Name and ID Number:

18. Briefly describe the disposition of tanks/piping (Attach documentation of proper disposal):
Piping was drained back to the tanks and completely removed by excavation. The piping appeared to be in good condition with no holes or leaks observed.

☐ ☒ 19. If contaminated soil is excavated:

a. Briefly describe the disposition and amount N/A (tons) of contaminated soil. Provide the name and permit number of the processing, treatment, storage or disposal facility. (Attach documentation of proper disposal):

b. If contaminated soil is determined/deemed to be hazardous waste, provide:

(1) Generator ID Number:

(2) Licensed Hazardous Waste Transporter Name and ID Number:

Yes	N/A		
☐	☒	20.	Briefly describe the disposition of and amount _____ (tons) of uncontaminated soil and debris (attach analyses):

_____

_____

_____

☐	☒	21.	If the tanks were "Closed-in-Place" provide information below:

a. Briefly describe the tank cleaning process: _____

_____

b. Describe the inert, non-shrinking material placed into the tanks:

_____

I, Sohail Riarah, hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating
(Print Name)
to unsworn falsification to authorities) that I am the owner of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Sohail Riarah (Feb 21, 2020)

Signature of Tank Owner

Feb 21, 2020

Date

Sohails Store

Company Name
(If applicable)

Owner

Title

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION II. Tank Handling Information

Facility ID Number 22-16012
DEP Tank ID Number(s) 006, 007, 008

Yes N/A

1. Briefly describe the excavation and initial on-site staging of uncontaminated/contaminated soil and debris:
   N/A

2. Briefly describe the method of piping system closure and the closure of the piping systems, including the quantity and condition of the piping:
   Piping was drained back to the tank and completely removed by excavation. The piping, approximately 120' appeared to be in good condition with no holes or leaks observed.

3. Briefly describe the condition of the tanks and any problems encountered during tank handling or tank removal activities:
   N/A

4. Briefly describe the method used to purge the tanks of and monitor for hazardous or explosive vapors:
   N/A

☐ ☒ 5. If tanks were cleaned on-site:
   a. Briefly describe the tank cleaning process:
   N/A
   b. If subcontracted, name and address of company that performed the tank cleaning:
   N/A

☐ ☒ 6. If tanks were "Closed-in-Place", briefly describe the tank fill material:
   N/A

☒ ☐ 7. If contamination was suspected or observed, the "Notification of Contamination" form was submitted.

I, Kyle Isenberg (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the certified remover who performed the tank handling activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section I) is true, accurate and complete to the best of my knowledge and belief.

Kyle Isenberg (Feb 21, 2020)

Signature of Certified Remover

Feb 21, 2020

Date

5995

Remover Certification Number

37

Company Certification Number

Keystone Petroleum Equipment, Ltd.

Company Name

981 West Trindle Road

Street

Mechanicsburg, PA 17055

City/Town, State, Zip

717-697-1651

Phone

UNDERGROUND STORAGE TANK SYSTEM CLOSURE REPORT FORM

SECTION III. Site Assessment Information

Tank Registration #006,007,008 (complete one sheet for EACH tank system and attach ALL laboratory sheets pertaining to that system)

Facility ID Number 22-16012

A. Provide depth of *BEDROCK* and *WATER* IF encountered during excavation or soil boring (write "N/A": if NOT encountered).

Bedrock N/A feet below land surface Water N/A feet below land surface

B. Provide Length of *PIPING* IF piping was closed-in-place (write "N/A" if NOT closed-in-place).

Length of piping N/A feet

C. **TANK SYSTEM REMOVED FROM THE GROUND/SITE** N/A

1.) Was obvious contamination observed while excavating, sampling or removing the tank system?

☐ NO ------→ Conduct confirmatory sampling ------→ See end of this section for options on submission and maintenance of closure records ------→ Do not complete item C.2. below.

☒ YES ------→ Report release to DEP within 24 hours ----→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills): Suspected contamination in two areas of the line trench. Sample results came back below action levels.

----→ Complete item C.2. below.

2.) Was contamination localized (within three feet of the tank system in every direction with no obvious water contamination)?

☐ YES ----→ Remove or remediate contaminated soil ----→ Conduct confirmatory sampling ----→ See end of this section for options on submission and maintenance of closure records ----→ Call Indemnification Fund (717-787-0763).

☐ NO ----→ Continue Interim Remedial Actions ----→ See end of this section for options on submission and maintenance of closure records ----→ Call Indemnification Fund (717-787-0763).

D. **TANK SYSTEM CLOSED-IN-PLACE OR CHANGED-IN-SERVICE** N/A

Was obvious contamination observed during sampling, boring or assessing water depths?

☐ NO ----→ Conduct confirmatory sampling ----→ See end of this section for options on submission and maintenance of closure records.

☐ YES ----→ Report release to DEP within 24 hours ----→ Describe contamination observed and likely source(s) (tank, piping, dispenser, spills, overfills):

Continue with corrective action ----→ See end of this section for options on submission and maintenance of closure records ----→ Call Indemnification Fund (717-787-0763).

E. If the answer to C.1. is "no", the answer to C.2. is "yes" or the answer to D. is "no", confirmatory samples are required. Use the sample/analysis information sheet on page 10 of 11 to provide the information on confirmatory sampling and complete the diagram on Page 11 of 11.

Options for Submission and Maintenance of Closure Site Assessment Records

Records of the site assessment must be maintained for at least three years after completion of permanent closure or change-in-service in one of the following ways:

(a) By the owners and operators who took the tank system out of service;
(b) By the current owners and operators of the tank system site; or
(c) By mailing these records to the DEP regional office responsible for the county in which the tank is located if they cannot be maintained at the closed facility.

Where the results of the site assessment indicate that obvious, localized soil contamination was encountered and the analytical results of the confirmatory sampling show levels below the statewide standard/action levels, this closure report form (Sections I, II, and III) or some other acceptable site characterization report must be received by the Department within 180 days of verbally reporting the release.

Where the results of the site assessment indicate that no obvious contamination or obvious, localized contamination was encountered, but the analytical results of the confirmatory sampling show levels above the statewide standard/action levels, or where there is obvious, extensive contamination, Section 245.310(a)(8) of the Corrective Action Process (CAP) regulations requires that details of removal from service be included in the site characterization report. A copy of the completed closure report form should be submitted as part of the site characterization report to satisfy the requirements of Section 245.310(a)(8) of the CAP regulations.

I, Doug Kassay (Print Name), hereby certify, under penalty of law as provided in 18 Pa. C.S. §4904 (relating to unsworn falsification to authorities) that I am the person who performed the site assessment activities associated with the closure of the above referenced storage tank system(s) and that the information provided by me in this closure report (Section III) is true, accurate and complete to the best of my knowledge and belief.

Doug Kassay (Feb 24, 2020)
Signature of Person Performing Site Assessment

Feb 24, 2020
Date

Operations Specialist
Title of Person Performing Site Assessment

Keystone Petroleum Equipment, Ltd.
Name of Company Performing Site Assessment

717.591.4016
Telephone Number of Person Performing Site Assessment

DEP-UST Closure Report Sohails Store Middletown

Final Audit Report 2020-02-24

Created:	2020-02-20
By:	Tina Bohn (tina.bohn@kpeltd.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAR6_mMNYfODW2ZbQJ_nWBQDRCGq2qfgYi

"DEP-UST Closure Report Sohails Store Middletown" History

Document created by Tina Bohn (tina.bohn@kpeltd.com)
2020-02-20 - 9:56:55 PM GMT- IP address: 71.173.211.66

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2020-02-20 - 9:58:01 PM GMT

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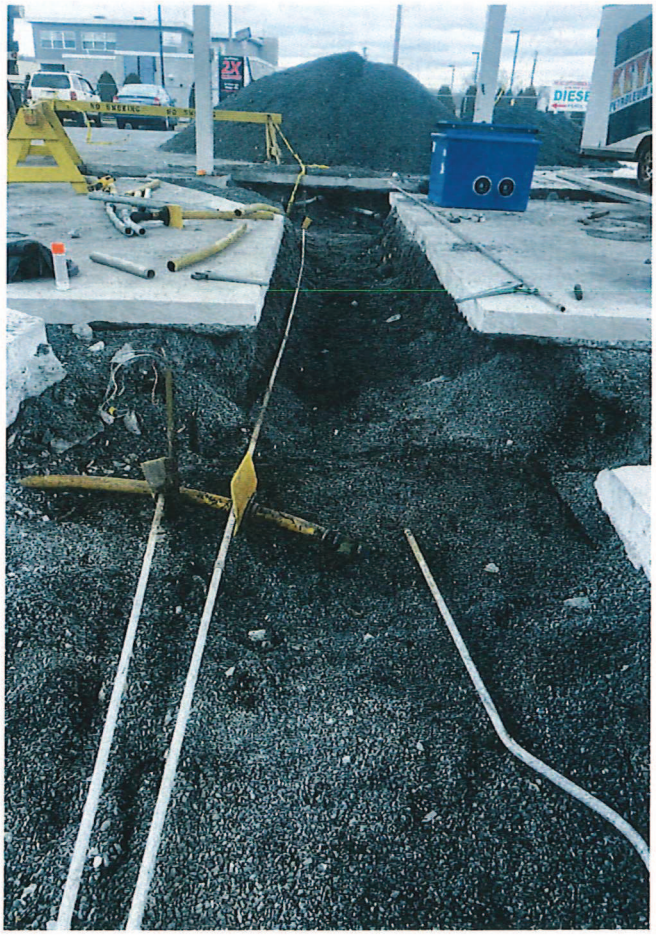
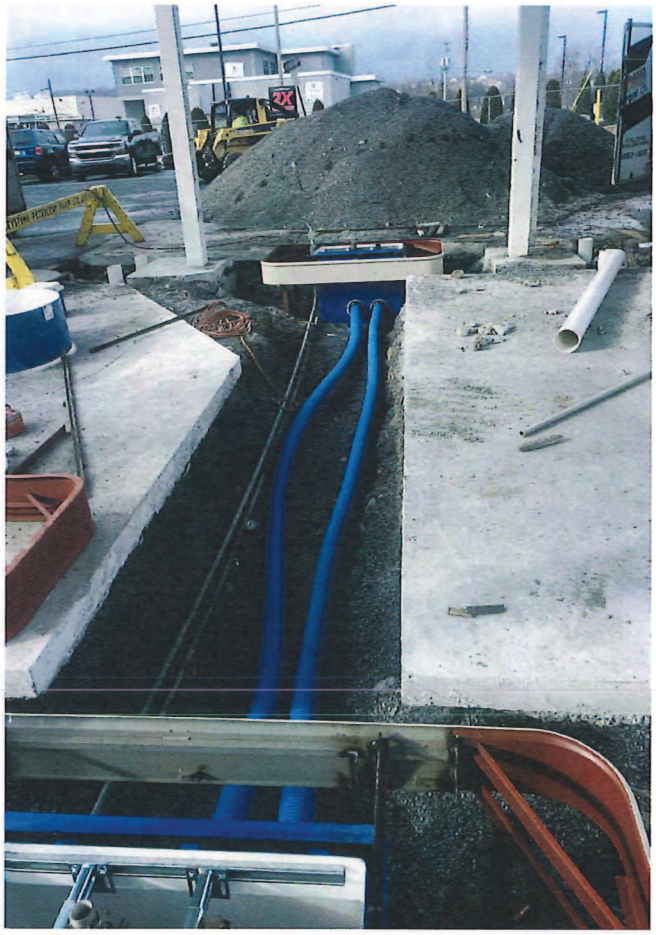
Signature Date: 2020-02-24 - 12:13:55 PM GMT - Time Source: server- IP address: 71.173.211.66

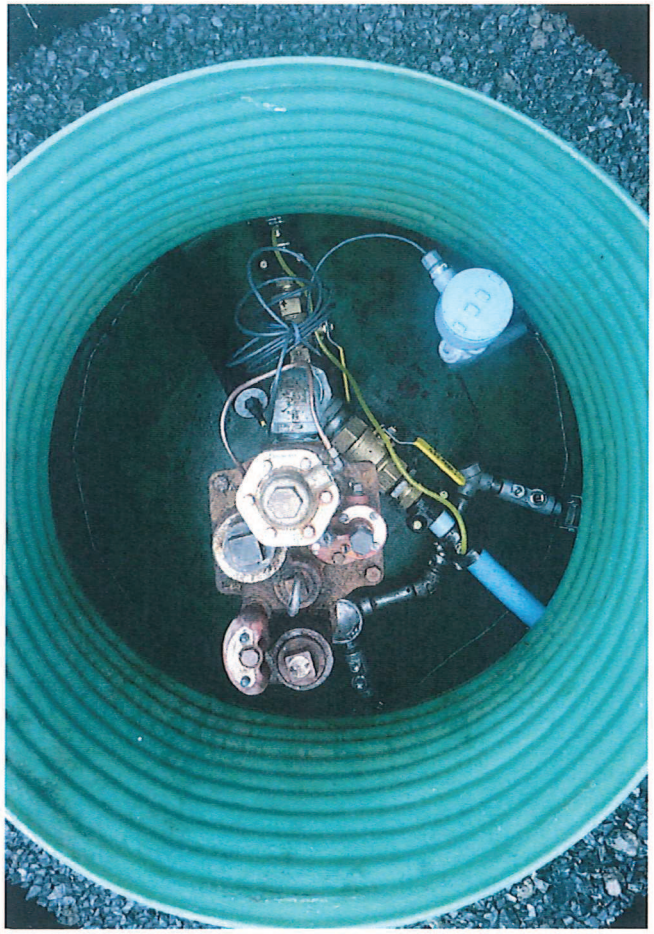
Signed document emailed to Tina Bohn (tina.bohn@kpeltd.com), Sohail Riarh (sohailriar@hotmail.com), Kyle Isenberg (kyle.isenberg@aol.com), and Doug Kassay (doug@kpeltd.com)

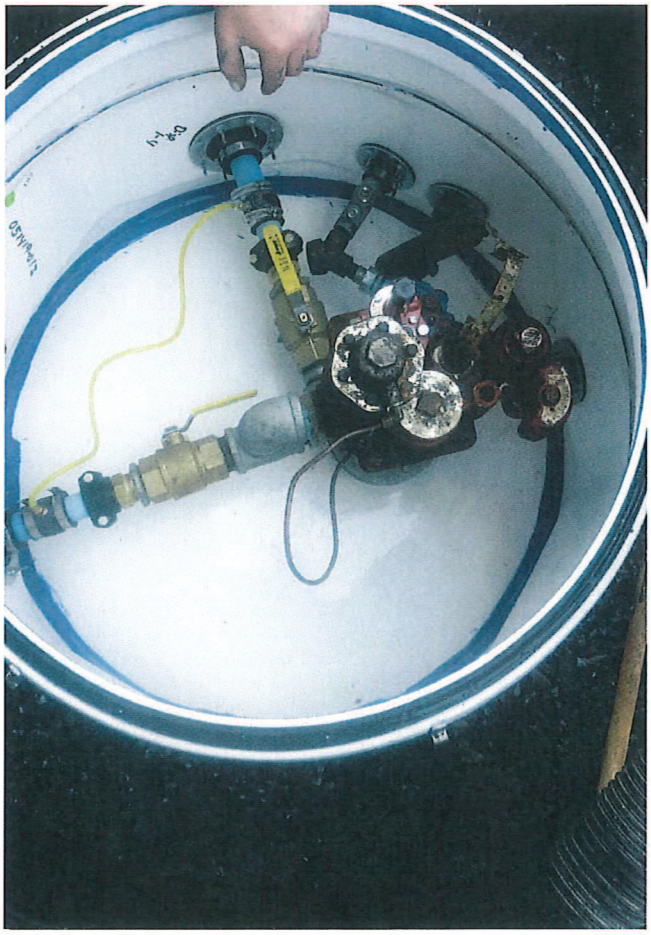
2020-02-24 - 12:13:55 PM GMT




ZEEKS







KEYSTONE
PETROLEUM EQUIPMENT LTD
981 Trindle Road West
Mechanicsburg, PA 17055
Phone: 717.697.1051 Fax: 717.697.0991

DESCRIPTION:	SOHAIL'S STORE 835 S. EISENHOWER BLVD LOWER SWATARA TWP\DAUPHIN COUNTY
PURPOSE:	LINE & DISPENSER CLOSURE/REPLACMENT
DWG. BY:	doug@kpetltd.com
DATE:	2/4/2020
LAI PERMIT #:	N/A
HAGFI.D #:	22-16012
DWG. NO.:	01

REVISION HISTORY

S. EISENHOWER BLVD.

X - SAMPLE LOCATION

FRONT GAS SAMPLES TAKEN: 1/31/2020
REAR DIESEL SAMPLES TAKEN: 2/4/2020

EXISTING 8K SWFG GAS TANK

EXISTING 12K SWFG GAS TANK

EXISTING 10K SWFG DIESEL TANK

C-STORE

N

SITE SATELLITE PHOTO

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

February 19, 2020

Doug Kassay
Keystone Petroleum Equipment
981 Trindle Road West
Mechanicsburg, PA 17055

RE: Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Dear Doug Kassay:
Enclosed are the analytical results for sample(s) received by the laboratory on February 05, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Megan Smetanka

Megan J. Smetanka
megan.smetanka@pacelabs.com
(724)850-5600
Project Manager

Enclosures

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Florida: Cert E871149 SEKS WET
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30348542001	**01-Disp. 1/2~3'**	EPA 8260B	ARG	13	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348542002	**02- BETWEEN 1/2-3/4~3'**	EPA 8260B	ARG	13	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348542003	**03-Disp. 3/4~3'**	EPA 8260B	ARG	13	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348542004	**04-BETWEEN 3/4-5/6~3'**	EPA 8260B	ARG	13	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348542005	**05-Disp. 5/6~3'**	EPA 8260B	ARG	13	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348542006	**06-BETWEEN 5/6-7/8~3'**	EPA 8260B	ARG	13	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348542007	**07-Disp. 7/8~3'**	EPA 8260B	ARG	13	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348542008	**08-BETWEEN 7/8&TANKS~3'**	EPA 8260B	ARG	13	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348542009	**TRIP BLANK**	EPA 8260B	KAC	13	PASI-PA

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Method: **EPA 8260B**
Description: 8260B MSV
Client: Keystone Petroleum Equipment
Date: February 19, 2020

General Information:
9 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Sample: 01-Disp. 1/2~3' **Lab ID: 30348542001** Collected: 01/31/20 08:00 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:04	71-43-2	
Ethylbenzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:04	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:04	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:04	1634-04-4	
Naphthalene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:04	91-20-3	
Toluene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:04	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:04	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:04	108-67-8	
Xylene (Total)	ND	mg/kg	0.014	1	02/11/20 13:50	02/11/20 22:04	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%.	70-130	1	02/11/20 13:50	02/11/20 22:04	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	70-130	1	02/11/20 13:50	02/11/20 22:04	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%.	70-130	1	02/11/20 13:50	02/11/20 22:04	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130	1	02/11/20 13:50	02/11/20 22:04	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.0**	%	0.10	1		02/18/20 15:57		

Sample: 02- BETWEEN 1/2-3/4~3' **Lab ID: 30348542002** Collected: 01/31/20 08:15 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:24	71-43-2	
Ethylbenzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:24	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:24	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:24	1634-04-4	
Naphthalene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:24	91-20-3	
Toluene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:24	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:24	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/11/20 22:24	108-67-8	
Xylene (Total)	ND	mg/kg	0.014	1	02/11/20 13:50	02/11/20 22:24	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%.	70-130	1	02/11/20 13:50	02/11/20 22:24	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	70-130	1	02/11/20 13:50	02/11/20 22:24	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130	1	02/11/20 13:50	02/11/20 22:24	17060-07-0	
Dibromofluoromethane (S)	102	%.	70-130	1	02/11/20 13:50	02/11/20 22:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**18.8**	%	0.10	1		02/18/20 15:57		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Sample: 03-Disp. 3/4~3' **Lab ID: 30348542003** Collected: 01/31/20 08:30 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0047	1	02/11/20 13:50	02/11/20 22:44	71-43-2	
Ethylbenzene	ND	mg/kg	0.0047	1	02/11/20 13:50	02/11/20 22:44	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0047	1	02/11/20 13:50	02/11/20 22:44	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0047	1	02/11/20 13:50	02/11/20 22:44	1634-04-4	
Naphthalene	ND	mg/kg	0.0047	1	02/11/20 13:50	02/11/20 22:44	91-20-3	
Toluene	ND	mg/kg	0.0047	1	02/11/20 13:50	02/11/20 22:44	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0047	1	02/11/20 13:50	02/11/20 22:44	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0047	1	02/11/20 13:50	02/11/20 22:44	108-67-8	
Xylene (Total)	ND	mg/kg	0.014	1	02/11/20 13:50	02/11/20 22:44	1330-20-7	
Surrogates								
Toluene-d8 (S)	97	%.	70-130	1	02/11/20 13:50	02/11/20 22:44	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130	1	02/11/20 13:50	02/11/20 22:44	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%.	70-130	1	02/11/20 13:50	02/11/20 22:44	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/11/20 13:50	02/11/20 22:44	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.2**	%	0.10	1		02/18/20 15:57		

Sample: 04-BETWEEN 3/4-5/6~3' **Lab ID: 30348542004** Collected: 01/31/20 08:45 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0039	1	02/11/20 13:50	02/11/20 23:04	71-43-2	
Ethylbenzene	ND	mg/kg	0.0039	1	02/11/20 13:50	02/11/20 23:04	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0039	1	02/11/20 13:50	02/11/20 23:04	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0039	1	02/11/20 13:50	02/11/20 23:04	1634-04-4	
Naphthalene	ND	mg/kg	0.0039	1	02/11/20 13:50	02/11/20 23:04	91-20-3	
Toluene	**0.0089**	mg/kg	0.0039	1	02/11/20 13:50	02/11/20 23:04	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0039	1	02/11/20 13:50	02/11/20 23:04	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0039	1	02/11/20 13:50	02/11/20 23:04	108-67-8	
Xylene (Total)	**0.016**	mg/kg	0.012	1	02/11/20 13:50	02/11/20 23:04	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1	02/11/20 13:50	02/11/20 23:04	2037-26-5	
4-Bromofluorobenzene (S)	99	%.	70-130	1	02/11/20 13:50	02/11/20 23:04	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/11/20 13:50	02/11/20 23:04	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130	1	02/11/20 13:50	02/11/20 23:04	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**15.8**	%	0.10	1		02/18/20 15:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
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ANALYTICAL RESULTS

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Sample: 05-Disp. 5/6~3' **Lab ID: 30348542005** Collected: 01/31/20 09:00 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0041	1	02/11/20 13:50	02/11/20 23:24	71-43-2	
Ethylbenzene	ND	mg/kg	0.0041	1	02/11/20 13:50	02/11/20 23:24	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0041	1	02/11/20 13:50	02/11/20 23:24	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0041	1	02/11/20 13:50	02/11/20 23:24	1634-04-4	
Naphthalene	ND	mg/kg	0.0041	1	02/11/20 13:50	02/11/20 23:24	91-20-3	
Toluene	**0.010**	mg/kg	0.0041	1	02/11/20 13:50	02/11/20 23:24	108-88-3	
1,2,4-Trimethylbenzene	**0.0047**	mg/kg	0.0041	1	02/11/20 13:50	02/11/20 23:24	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0041	1	02/11/20 13:50	02/11/20 23:24	108-67-8	
Xylene (Total)	**0.017**	mg/kg	0.012	1	02/11/20 13:50	02/11/20 23:24	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%.	70-130	1	02/11/20 13:50	02/11/20 23:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130	1	02/11/20 13:50	02/11/20 23:24	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1	02/11/20 13:50	02/11/20 23:24	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/11/20 13:50	02/11/20 23:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.5**	%	0.10	1		02/18/20 15:59		

Sample: 06-BETWEEN 5/6-7/8~3' **Lab ID: 30348542006** Collected: 01/31/20 09:15 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0057	1	02/11/20 13:50	02/11/20 23:44	71-43-2	
Ethylbenzene	ND	mg/kg	0.0057	1	02/11/20 13:50	02/11/20 23:44	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0057	1	02/11/20 13:50	02/11/20 23:44	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0057	1	02/11/20 13:50	02/11/20 23:44	1634-04-4	
Naphthalene	ND	mg/kg	0.0057	1	02/11/20 13:50	02/11/20 23:44	91-20-3	
Toluene	ND	mg/kg	0.0057	1	02/11/20 13:50	02/11/20 23:44	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0057	1	02/11/20 13:50	02/11/20 23:44	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0057	1	02/11/20 13:50	02/11/20 23:44	108-67-8	
Xylene (Total)	ND	mg/kg	0.017	1	02/11/20 13:50	02/11/20 23:44	1330-20-7	
Surrogates								
Toluene-d8 (S)	95	%.	70-130	1	02/11/20 13:50	02/11/20 23:44	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130	1	02/11/20 13:50	02/11/20 23:44	460-00-4	
1,2-Dichloroethane-d4 (S)	117	%.	70-130	1	02/11/20 13:50	02/11/20 23:44	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130	1	02/11/20 13:50	02/11/20 23:44	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**24.7**	%	0.10	1		02/18/20 15:59		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
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(724)850-5600

ANALYTICAL RESULTS

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Sample: 07-Disp. 7/8~3' **Lab ID: 30348542007** Collected: 01/31/20 09:30 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0051	1	02/11/20 13:50	02/12/20 00:04	71-43-2	
Ethylbenzene	ND	mg/kg	0.0051	1	02/11/20 13:50	02/12/20 00:04	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0051	1	02/11/20 13:50	02/12/20 00:04	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0051	1	02/11/20 13:50	02/12/20 00:04	1634-04-4	
Naphthalene	ND	mg/kg	0.0051	1	02/11/20 13:50	02/12/20 00:04	91-20-3	
Toluene	ND	mg/kg	0.0051	1	02/11/20 13:50	02/12/20 00:04	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0051	1	02/11/20 13:50	02/12/20 00:04	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0051	1	02/11/20 13:50	02/12/20 00:04	108-67-8	
Xylene (Total)	ND	mg/kg	0.015	1	02/11/20 13:50	02/12/20 00:04	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%.	70-130	1	02/11/20 13:50	02/12/20 00:04	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	70-130	1	02/11/20 13:50	02/12/20 00:04	460-00-4	
1,2-Dichloroethane-d4 (S)	114	%.	70-130	1	02/11/20 13:50	02/12/20 00:04	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/11/20 13:50	02/12/20 00:04	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.2**	%	0.10	1		02/18/20 15:59		

Sample: 08-BETWEEN 7/8&TANKS~3' **Lab ID: 30348542008** Collected: 01/31/20 09:45 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/12/20 00:24	71-43-2	
Ethylbenzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/12/20 00:24	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0046	1	02/11/20 13:50	02/12/20 00:24	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0046	1	02/11/20 13:50	02/12/20 00:24	1634-04-4	
Naphthalene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/12/20 00:24	91-20-3	
Toluene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/12/20 00:24	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/12/20 00:24	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0046	1	02/11/20 13:50	02/12/20 00:24	108-67-8	
Xylene (Total)	ND	mg/kg	0.014	1	02/11/20 13:50	02/12/20 00:24	1330-20-7	
Surrogates								
Toluene-d8 (S)	95	%.	70-130	1	02/11/20 13:50	02/12/20 00:24	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	70-130	1	02/11/20 13:50	02/12/20 00:24	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%.	70-130	1	02/11/20 13:50	02/12/20 00:24	17060-07-0	
Dibromofluoromethane (S)	103	%.	70-130	1	02/11/20 13:50	02/12/20 00:24	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.7**	%	0.10	1		02/18/20 16:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
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(724)850-5600

ANALYTICAL RESULTS

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Sample: TRIP BLANK **Lab ID: 30348542009** Collected: 01/31/20 00:01 Received: 02/05/20 21:30 Matrix: Water
Comments: •

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		02/06/20 14:54	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		02/06/20 14:54	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/06/20 14:54	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/06/20 14:54	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/06/20 14:54	91-20-3	
Toluene	**1.5**	ug/L	1.0	1		02/06/20 14:54	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/06/20 14:54	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/06/20 14:54	108-67-8	
Xylene (Total)	ND	ug/L	3.0	1		02/06/20 14:54	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%.	70-130	1		02/06/20 14:54	2037-26-5	
4-Bromofluorobenzene (S)	104	%.	70-130	1		02/06/20 14:54	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130	1		02/06/20 14:54	17060-07-0	
Dibromofluoromethane (S)	95	%.	70-130	1		02/06/20 14:54	1868-53-7	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
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QUALITY CONTROL DATA

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

QC Batch: 383360 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260B MSV UST-SOIL
Associated Lab Samples: 30348542001, 30348542002, 30348542003, 30348542004, 30348542005, 30348542006, 30348542007, 30348542008

METHOD BLANK: 1857740 Matrix: Solid
Associated Lab Samples: 30348542001, 30348542002, 30348542003, 30348542004, 30348542005, 30348542006, 30348542007, 30348542008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	02/11/20 20:03	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	02/11/20 20:03	
Benzene	mg/kg	ND	0.0050	02/11/20 20:03	
Ethylbenzene	mg/kg	ND	0.0050	02/11/20 20:03	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	02/11/20 20:03	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	02/11/20 20:03	
Naphthalene	mg/kg	ND	0.0050	02/11/20 20:03	
Toluene	mg/kg	ND	0.0050	02/11/20 20:03	
Xylene (Total)	mg/kg	ND	0.015	02/11/20 20:03	
1,2-Dichloroethane-d4 (S)	%.	107	70-130	02/11/20 20:03	
4-Bromofluorobenzene (S)	%.	100	70-130	02/11/20 20:03	
Dibromofluoromethane (S)	%.	100	70-130	02/11/20 20:03	
Toluene-d8 (S)	%.	97	70-130	02/11/20 20:03	

LABORATORY CONTROL SAMPLE: 1857741

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	0.02	0.015	73	58-126	
1,3,5-Trimethylbenzene	mg/kg	0.02	0.015	74	56-124	
Benzene	mg/kg	0.02	0.016	82	51-123	
Ethylbenzene	mg/kg	0.02	0.016	79	61-123	
Isopropylbenzene (Cumene)	mg/kg	0.02	0.018	88	62-136	
Methyl-tert-butyl ether	mg/kg	0.02	0.019	94	60-108	
Naphthalene	mg/kg	0.02	0.018	88	65-110	
Toluene	mg/kg	0.02	0.016	78	56-120	
Xylene (Total)	mg/kg	0.06	0.045	74	57-125	
1,2-Dichloroethane-d4 (S)	%.			104	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Dibromofluoromethane (S)	%.			99	70-130	
Toluene-d8 (S)	%.			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1857742 1857743

Parameter	Units	30349012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trimethylbenzene	mg/kg	ND	0.021	0.025	0.0092	0.0095	43	38	10-150	3	
1,3,5-Trimethylbenzene	mg/kg	ND	0.021	0.025	0.0098	0.0099	46	40	10-129	1	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1857742 1857743

Parameter	Units	30349012001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	mg/kg	ND	0.021	0.025	0.012	0.013	54	51	29-120	9	
Ethylbenzene	mg/kg	ND	0.021	0.025	0.011	0.011	50	46	10-136	6	
Isopropylbenzene (Cumene)	mg/kg	ND	0.021	0.025	0.012	0.013	58	53	10-145	5	
Methyl-tert-butyl ether	mg/kg	ND	0.021	0.025	0.013	0.014	60	56	30-110	6	
Naphthalene	mg/kg	ND	0.021	0.025	.0049J	.0046J	23	18	10-154		
Toluene	mg/kg	ND	0.021	0.025	0.011	0.012	50	48	13-132	10	
Xylene (Total)	mg/kg	ND	0.064	0.074	0.030	0.032	46	43	12-128	7	
1,2-Dichloroethane-d4 (S)	%.						113	115	70-130		
4-Bromofluorobenzene (S)	%.						103	100	70-130		
Dibromofluoromethane (S)	%.						103	105	70-130		
Toluene-d8 (S)	%.						97	98	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

QC Batch: 382739
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 30348542009

METHOD BLANK: 1854823 Matrix: Water
Associated Lab Samples: 30348542009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/06/20 13:14	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/06/20 13:14	
Benzene	ug/L	ND	1.0	02/06/20 13:14	
Ethylbenzene	ug/L	ND	1.0	02/06/20 13:14	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/06/20 13:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/06/20 13:14	
Naphthalene	ug/L	ND	2.0	02/06/20 13:14	
Toluene	ug/L	ND	1.0	02/06/20 13:14	
Xylene (Total)	ug/L	ND	3.0	02/06/20 13:14	
1,2-Dichloroethane-d4 (S)	%.	101	70-130	02/06/20 13:14	
4-Bromofluorobenzene (S)	%.	100	70-130	02/06/20 13:14	
Dibromofluoromethane (S)	%.	95	70-130	02/06/20 13:14	
Toluene-d8 (S)	%.	99	70-130	02/06/20 13:14	

LABORATORY CONTROL SAMPLE: 1854824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.6	103	70-130	
1,3,5-Trimethylbenzene	ug/L	20	20.9	105	70-130	
Benzene	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	20.9	105	70-130	
Isopropylbenzene (Cumene)	ug/L	20	22.8	114	70-130	
Methyl-tert-butyl ether	ug/L	20	20.0	100	70-130	
Naphthalene	ug/L	20	26.1	131	55-160	
Toluene	ug/L	20	20.9	104	70-130	
Xylene (Total)	ug/L	60	61.6	103	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	70-130	
4-Bromofluorobenzene (S)	%.			100	70-130	
Dibromofluoromethane (S)	%.			96	70-130	
Toluene-d8 (S)	%.			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854882 1854883

Parameter	Units	30348499003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.6	19.7	118	98	52-151	18	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.4	19.8	117	99	53-142	16	
Benzene	ug/L	ND	20	20	23.3	19.1	116	96	50-149	19	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854882 1854883

Parameter	Units	30348499003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Ethylbenzene	ug/L	ND	20	20	23.7	19.4	118	97	63-135	20	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	25.5	21.8	127	109	50-167	16	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.9	21.2	110	106	53-123	3	
Naphthalene	ug/L	ND	20	20	29.6	23.3	148	117	30-157	24	
Toluene	ug/L	ND	20	20	22.8	19.7	114	99	59-139	15	
Xylene (Total)	ug/L	ND	60	60	69.6	57.2	116	95	63-135	20	
1,2-Dichloroethane-d4 (S)	%.						100	101	70-130		
4-Bromofluorobenzene (S)	%.						100	99	70-130		
Dibromofluoromethane (S)	%.						97	95	70-130		
Toluene-d8 (S)	%.						100	101	70-130		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

QC Batch: 384390 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30348542001, 30348542002, 30348542003, 30348542004, 30348542005, 30348542006, 30348542007, 30348542008

SAMPLE DUPLICATE: 1862511

Parameter	Units	30348540001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	16.9	17.2	2	

SAMPLE DUPLICATE: 1862512

Parameter	Units	30348541001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	21.0	21.6	3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1350-SOHAIL'S EXXON GAS
Pace Project No.: 30348542

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30348542001	**01-Disp. 1/2~3'**	EPA 5035A	383360	EPA 8260B	383375
30348542002	**02- BETWEEN 1/2-3/4~3'**	EPA 5035A	383360	EPA 8260B	383375
30348542003	**03-Disp. 3/4~3'**	EPA 5035A	383360	EPA 8260B	383375
30348542004	**04-BETWEEN 3/4-5/6~3'**	EPA 5035A	383360	EPA 8260B	383375
30348542005	**05-Disp. 5/6~3'**	EPA 5035A	383360	EPA 8260B	383375
30348542006	**06-BETWEEN 5/6-7/8~3'**	EPA 5035A	383360	EPA 8260B	383375
30348542007	**07-Disp. 7/8~3'**	EPA 5035A	383360	EPA 8260B	383375
30348542008	**08-BETWEEN 7/8&TANKS~3'**	EPA 5035A	383360	EPA 8260B	383375
30348542009	**TRIP BLANK**	EPA 8260B	382739		
30348542001	**01-Disp. 1/2~3'**	ASTM D2974-87	384390		
30348542002	**02- BETWEEN 1/2-3/4~3'**	ASTM D2974-87	384390		
30348542003	**03-Disp. 3/4~3'**	ASTM D2974-87	384390		
30348542004	**04-BETWEEN 3/4-5/6~3'**	ASTM D2974-87	384390		
30348542005	**05-Disp. 5/6~3'**	ASTM D2974-87	384390		
30348542006	**06-BETWEEN 5/6-7/8~3'**	ASTM D2974-87	384390		
30348542007	**07-Disp. 7/8~3'**	ASTM D2974-87	384390		
30348542008	**08-BETWEEN 7/8&TANKS~3'**	ASTM D2974-87	384390		

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

WO# : 30348542

30348542

LAB U … Number or

Company: KEYSTONE PETROLEUM	Billing Information:
Address:	
Report To: DOUG KASSAY	Email To:
Copy To:	Site Collection Info/Address:
Customer Project Name/Number: 1350 - SOHAIL'S EXXON GAS	State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET
Phone: Email:	Site/Facility ID #: 22-16012
Collected By (print): KYLE ISENBERG	Purchase Order #: Quote #:
Collected By (signature):	Turnaround Date Required: STANDARD
Sample Disposal: [X] Dispose as appropriate [ ] Return [ ] Archive: _____ [ ] Hold: _____	Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Compliance Monitoring? [ ] Yes [X] No

DW PWS ID #:

DW Location Code:

Immediately Packed on Ice: [X] Yes [ ] No

Field Filtered (if applicable): [ ] Yes [X] No

Analysis: _____

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: U2 LEADED GAS	Lab Sample #
01 - DISP. 1/2 ~3'	SL	G			11/21/2020	0800		4	X	001
02 - BETWEEN 1/2 - 3/4 ~3'	"	"			"	0815		"	X	002
03 - DISP. 3/4 ~3'						0830			X	003
04 - BETWEEN 3/4 - 5/6 ~3'						0845			X	004
05 - DISP. 5/6 ~3'						0900			X	005
06 - BETWEEN 5/6 - 7/8 ~3'						0915			X	006
07 - DISP. 7/8 ~3'						0930			X	007
08 - BETWEEN 7/8 & TANKS ~3'		G			11/21/2020	0945		4	X	008
TRIP BLANK										009

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY:

Lab Sample # / Comments:

MLC / MLC

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

Packing Material Used: Foam / bubble wrap

Radchem sample(s) screened (<500 cpm): Y N (NA)

SHORT HOLDS PRESENT (<72 hours): Y N (N/A)

Lab Tracking #: N/A 2374219

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:

Temp Blank Received: Y N (NA)

Therm ID#: 10

Cooler 1 Temp Upon Receipt: 3.2 oC

Cooler 1 Therm Corr. Factor: 0 oC

Cooler 1 Corrected Temp: 3.2 oC

Comments:

MLC 2-6-20

	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature) KYLE ISENBERG	11/21/2020 @ 1700	DOUG KASSAY	11/21/2020 @ 1700
Relinquished by/Company: (Signature) DOUG KASSAY	2/5/20 0915	MS / PACE	2/5/20 0915
Relinquished by/Company: (Signature) MS / PACE	2/5/20 1815	RDS / PACE	2-5-20 1815

MTJL LAB USE ONLY

Table #:

Acctnum:

Template:

Prelogin:

PM:

PB:

Trip Blank Received: (Y) N NA

(HCl) MeOH TSP Other

Non Conformance(s): (YES) / NO

Page: 1 of: 1

RDS / PACE 2-5-20 2130 Marnie J (May) 2-5-20 2130

Page 17 of 18

Pace Analytical
www.pacelabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 2-6-20	Evaluated by: MC
Client: Keystone Petroleum	

WO# : 30348542

PM: MS1 Due Date: 02/15/20

CLIENT: KEY PET EQP

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

X	Collection date/time missing or incorrect		Analyses or analytes: missing or clarification needed		Samples listed on COC do not match samples received (missing, additional, etc.)
X	Sample IDs on COC do not match sample labels		Required trip blanks were not received	X	Required signatures are missing

Comments/Details/Other Issues not listed above: no time, date or sample ID on sample labels
no collector signature on COC

3. Sample integrity issues: check applicable issues below and add details where appropriate:

	Samples: Past holding time		Samples: Condition needs to be brought to lab personnel's attention (details below)		Preservation: Improper
	Samples: Not field filtered		Containers: Broken or compromised		Temperature: not within acceptance criteria (typically 0-6C)
	Samples: Insufficient volume received		Containers: Incorrect		Temperature: Samples arrived frozen
	Samples: Cooler damaged or compromised		Custody Seals: Missing or compromised on samples, trip blanks or coolers		Vials received with improper headspace
	Samples: contain chlorine or sulfides		Packing Material: Insufficient/Improper		Other:

Comments/Details:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:	
PM Initials:	Date/Time:	

Client Comments/Instructions:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

February 19, 2020

Doug Kassay
Keystone Petroleum Equipment
981 Trindle Road West
Mechanicsburg, PA 17055

RE: Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

Dear Doug Kassay:
Enclosed are the analytical results for sample(s) received by the laboratory on February 05, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Megan Smetanka

Megan J. Smetanka
megan.smetanka@pacelabs.com
(724)850-5600
Project Manager

Enclosures

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Florida: Cert E871149 SEKS WET
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30348541001	**09-DIESEL DISP 1~3'**	EPA 8260B	JEW	12	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348541002	**10-BETWEEN D1&D2~3'**	EPA 8260B	JEW	12	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348541003	**11-DIESEL DISP2~3'**	EPA 8260B	JEW	12	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348541004	**12-LINE TO TANK~3'**	EPA 8260B	JEW	12	PASI-PA
		ASTM D2974-87	NLD	1	PASI-PA
30348541005	**TRIP BLANK**	EPA 8260B	KAC	12	PASI-PA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

PROJECT NARRATIVE

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

Method: **EPA 8260B**
Description: 8260B MSV
Client: Keystone Petroleum Equipment
Date: February 19, 2020

General Information:
5 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 383726

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30349530001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- MS (Lab ID: 1859408)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - Ethylbenzene
  - Isopropylbenzene (Cumene)
  - Naphthalene
  - Toluene
- MSD (Lab ID: 1859409)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene

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PROJECT NARRATIVE

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

Method: **EPA 8260B**
Description: 8260B MSV
Client: Keystone Petroleum Equipment
Date: February 19, 2020

QC Batch: 383726

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30349530001

ML: Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

- Ethylbenzene
- Isopropylbenzene (Cumene)
- Naphthalene
- Toluene

R1: RPD value was outside control limits.

- MSD (Lab ID: 1859409)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - Ethylbenzene
  - Isopropylbenzene (Cumene)
  - Naphthalene

QC Batch: 383728

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: 383728

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- 10-BETWEEN D1&D2~3' (Lab ID: 30348541002)
  - 1,2,4-Trimethylbenzene
  - 1,3,5-Trimethylbenzene
  - Benzene
  - Ethylbenzene
  - Isopropylbenzene (Cumene)
  - Methyl-tert-butyl ether
  - Naphthalene
  - Toluene

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

Sample: 09-DIESEL DISP 1~3' **Lab ID: 30348541001** Collected: 02/04/20 15:30 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0048	1	02/13/20 11:30	02/13/20 12:13	71-43-2	
Ethylbenzene	ND	mg/kg	0.0048	1	02/13/20 11:30	02/13/20 12:13	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0048	1	02/13/20 11:30	02/13/20 12:13	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0048	1	02/13/20 11:30	02/13/20 12:13	1634-04-4	
Naphthalene	ND	mg/kg	0.0048	1	02/13/20 11:30	02/13/20 12:13	91-20-3	
Toluene	ND	mg/kg	0.0048	1	02/13/20 11:30	02/13/20 12:13	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0048	1	02/13/20 11:30	02/13/20 12:13	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0048	1	02/13/20 11:30	02/13/20 12:13	108-67-8	
Surrogates								
Toluene-d8 (S)	91	%.	70-130	1	02/13/20 11:30	02/13/20 12:13	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	70-130	1	02/13/20 11:30	02/13/20 12:13	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%.	70-130	1	02/13/20 11:30	02/13/20 12:13	17060-07-0	
Dibromofluoromethane (S)	101	%.	70-130	1	02/13/20 11:30	02/13/20 12:13	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**21.0**	%	0.10	1		02/18/20 15:57		

Sample: 10-BETWEEN D1&D2~3' **Lab ID: 30348541002** Collected: 02/04/20 15:40 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.23	50	02/13/20 12:08	02/14/20 15:47	71-43-2	1c
Ethylbenzene	ND	mg/kg	0.23	50	02/13/20 12:08	02/14/20 15:47	100-41-4	1c
Isopropylbenzene (Cumene)	ND	mg/kg	0.23	50	02/13/20 12:08	02/14/20 15:47	98-82-8	1c
Methyl-tert-butyl ether	ND	mg/kg	0.23	50	02/13/20 12:08	02/14/20 15:47	1634-04-4	1c
Naphthalene	ND	mg/kg	0.23	50	02/13/20 12:08	02/14/20 15:47	91-20-3	1c
Toluene	ND	mg/kg	0.23	50	02/13/20 12:08	02/14/20 15:47	108-88-3	1c
1,2,4-Trimethylbenzene	**0.96**	mg/kg	0.23	50	02/13/20 12:08	02/14/20 15:47	95-63-6	1c
1,3,5-Trimethylbenzene	**0.48**	mg/kg	0.23	50	02/13/20 12:08	02/14/20 15:47	108-67-8	1c
Surrogates								
Toluene-d8 (S)	98	%.	70-130	50	02/13/20 12:08	02/14/20 15:47	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	70-130	50	02/13/20 12:08	02/14/20 15:47	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%.	70-130	50	02/13/20 12:08	02/14/20 15:47	17060-07-0	
Dibromofluoromethane (S)	95	%.	70-130	50	02/13/20 12:08	02/14/20 15:47	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.0**	%	0.10	1		02/18/20 15:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

Sample: 11-DIESEL DISP2~3' **Lab ID: 30348541003** Collected: 02/04/20 15:50 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0052	1	02/13/20 11:30	02/13/20 12:40	71-43-2	
Ethylbenzene	ND	mg/kg	0.0052	1	02/13/20 11:30	02/13/20 12:40	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0052	1	02/13/20 11:30	02/13/20 12:40	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0052	1	02/13/20 11:30	02/13/20 12:40	1634-04-4	
Naphthalene	ND	mg/kg	0.0052	1	02/13/20 11:30	02/13/20 12:40	91-20-3	
Toluene	ND	mg/kg	0.0052	1	02/13/20 11:30	02/13/20 12:40	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0052	1	02/13/20 11:30	02/13/20 12:40	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0052	1	02/13/20 11:30	02/13/20 12:40	108-67-8	
Surrogates								
Toluene-d8 (S)	97	%.	70-130	1	02/13/20 11:30	02/13/20 12:40	2037-26-5	
4-Bromofluorobenzene (S)	95	%.	70-130	1	02/13/20 11:30	02/13/20 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%.	70-130	1	02/13/20 11:30	02/13/20 12:40	17060-07-0	
Dibromofluoromethane (S)	100	%.	70-130	1	02/13/20 11:30	02/13/20 12:40	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**14.2**	%	0.10	1		02/18/20 15:57		

Sample: 12-LINE TO TANK~3' **Lab ID: 30348541004** Collected: 02/04/20 16:00 Received: 02/05/20 21:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
Comments: • Sample ID, collection dates, and times were not present on the sample containers. Samples were numbered to match the COC.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B Preparation Method: EPA 5035A							
Benzene	ND	mg/kg	0.0045	1	02/13/20 11:30	02/13/20 13:06	71-43-2	
Ethylbenzene	ND	mg/kg	0.0045	1	02/13/20 11:30	02/13/20 13:06	100-41-4	
Isopropylbenzene (Cumene)	ND	mg/kg	0.0045	1	02/13/20 11:30	02/13/20 13:06	98-82-8	
Methyl-tert-butyl ether	ND	mg/kg	0.0045	1	02/13/20 11:30	02/13/20 13:06	1634-04-4	
Naphthalene	ND	mg/kg	0.0045	1	02/13/20 11:30	02/13/20 13:06	91-20-3	
Toluene	ND	mg/kg	0.0045	1	02/13/20 11:30	02/13/20 13:06	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0045	1	02/13/20 11:30	02/13/20 13:06	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0045	1	02/13/20 11:30	02/13/20 13:06	108-67-8	
Surrogates								
Toluene-d8 (S)	97	%.	70-130	1	02/13/20 11:30	02/13/20 13:06	2037-26-5	
4-Bromofluorobenzene (S)	93	%.	70-130	1	02/13/20 11:30	02/13/20 13:06	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%.	70-130	1	02/13/20 11:30	02/13/20 13:06	17060-07-0	
Dibromofluoromethane (S)	99	%.	70-130	1	02/13/20 11:30	02/13/20 13:06	1868-53-7	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**11.5**	%	0.10	1		02/18/20 15:57		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

Sample: TRIP BLANK **Lab ID: 30348541005** Collected: 02/04/20 00:01 Received: 02/05/20 21:30 Matrix: Water
Comments: • 2 40mL HCL vials contian headspace

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV	Analytical Method: EPA 8260B							
Benzene	ND	ug/L	1.0	1		02/06/20 14:29	71-43-2	
Ethylbenzene	ND	ug/L	1.0	1		02/06/20 14:29	100-41-4	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	1		02/06/20 14:29	98-82-8	
Methyl-tert-butyl ether	ND	ug/L	1.0	1		02/06/20 14:29	1634-04-4	
Naphthalene	ND	ug/L	2.0	1		02/06/20 14:29	91-20-3	
Toluene	ND	ug/L	1.0	1		02/06/20 14:29	108-88-3	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	1		02/06/20 14:29	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	1		02/06/20 14:29	108-67-8	
Surrogates								
Toluene-d8 (S)	100	%.	70-130	1		02/06/20 14:29	2037-26-5	
4-Bromofluorobenzene (S)	105	%.	70-130	1		02/06/20 14:29	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%.	70-130	1		02/06/20 14:29	17060-07-0	
Dibromofluoromethane (S)	96	%.	70-130	1		02/06/20 14:29	1868-53-7	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

QC Batch: 383726 Analysis Method: EPA 8260B
QC Batch Method: EPA 5035A Analysis Description: 8260B MSV UST-SOIL
Associated Lab Samples: 30348541001, 30348541003, 30348541004

METHOD BLANK: 1859406 Matrix: Solid
Associated Lab Samples: 30348541001, 30348541003, 30348541004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	02/13/20 11:47	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	02/13/20 11:47	
Benzene	mg/kg	ND	0.0050	02/13/20 11:47	
Ethylbenzene	mg/kg	ND	0.0050	02/13/20 11:47	
Isopropylbenzene (Cumene)	mg/kg	ND	0.0050	02/13/20 11:47	
Methyl-tert-butyl ether	mg/kg	ND	0.0050	02/13/20 11:47	
Naphthalene	mg/kg	ND	0.0050	02/13/20 11:47	
Toluene	mg/kg	ND	0.0050	02/13/20 11:47	
1,2-Dichloroethane-d4 (S)	%.	100	70-130	02/13/20 11:47	
4-Bromofluorobenzene (S)	%.	93	70-130	02/13/20 11:47	
Dibromofluoromethane (S)	%.	97	70-130	02/13/20 11:47	
Toluene-d8 (S)	%.	96	70-130	02/13/20 11:47	

LABORATORY CONTROL SAMPLE: 1859407

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	0.02	0.019	95	58-126	
1,3,5-Trimethylbenzene	mg/kg	0.02	0.019	93	56-124	
Benzene	mg/kg	0.02	0.019	95	51-123	
Ethylbenzene	mg/kg	0.02	0.019	93	61-123	
Isopropylbenzene (Cumene)	mg/kg	0.02	0.020	100	62-136	
Methyl-tert-butyl ether	mg/kg	0.02	0.019	94	60-108	
Naphthalene	mg/kg	0.02	0.017	83	65-110	
Toluene	mg/kg	0.02	0.018	88	56-120	
1,2-Dichloroethane-d4 (S)	%.			99	70-130	
4-Bromofluorobenzene (S)	%.			97	70-130	
Dibromofluoromethane (S)	%.			99	70-130	
Toluene-d8 (S)	%.			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859408 1859409

Parameter	Units	30349530001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trimethylbenzene	mg/kg	902 ug/kg	0.026	0.031	0.50	0.23	-1500	-2200	10-150	73	ML,R1
1,3,5-Trimethylbenzene	mg/kg	272 ug/kg	0.026	0.031	0.16	0.078	-424	-636	10-129	68	ML,R1
Benzene	mg/kg	7.9 ug/kg	0.026	0.031	0.024	0.027	58	62	29-120	13	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1859408 1859409

Parameter	Units	30349530001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Ethylbenzene	mg/kg	241 ug/kg	0.026	0.031	0.14	0.096	-377	-475	10-136	37	ML,R1
Isopropylbenzene (Cumene)	mg/kg	64.9 ug/kg	0.026	0.031	0.052	0.035	-50	-98	10-145	38	ML,R1
Methyl-tert-butyl ether	mg/kg	ND	0.026	0.031	0.018	0.021	69	69	30-110	13	
Naphthalene	mg/kg	82.1 ug/kg	0.026	0.031	0.056	0.025	-99	-188	10-154	77	ML,R1
Toluene	mg/kg	189 ug/kg	0.026	0.031	0.12	0.11	-245	-269	13-132	14	ML
1,2-Dichloroethane-d4 (S)	%.						105	105	70-130		
4-Bromofluorobenzene (S)	%.						106	108	70-130		
Dibromofluoromethane (S)	%.						103	103	70-130		
Toluene-d8 (S)	%.						114	106	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

QC Batch: 383728
QC Batch Method: EPA 5035A
Associated Lab Samples: 30348541002

Analysis Method: EPA 8260B
Analysis Description: 8260B MSV UST-SOIL

METHOD BLANK: 1859416
Matrix: Solid
Associated Lab Samples: 30348541002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	0.25	02/14/20 10:07	
1,3,5-Trimethylbenzene	mg/kg	ND	0.25	02/14/20 10:07	
Benzene	mg/kg	ND	0.25	02/14/20 10:07	
Ethylbenzene	mg/kg	ND	0.25	02/14/20 10:07	
Isopropylbenzene (Cumene)	mg/kg	ND	0.25	02/14/20 10:07	
Methyl-tert-butyl ether	mg/kg	ND	0.25	02/14/20 10:07	
Naphthalene	mg/kg	ND	0.25	02/14/20 10:07	
Toluene	mg/kg	ND	0.25	02/14/20 10:07	
1,2-Dichloroethane-d4 (S)	%.	107	70-130	02/14/20 10:07	
4-Bromofluorobenzene (S)	%.	98	70-130	02/14/20 10:07	
Dibromofluoromethane (S)	%.	98	70-130	02/14/20 10:07	
Toluene-d8 (S)	%.	98	70-130	02/14/20 10:07	

LABORATORY CONTROL SAMPLE: 1859417

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	0.02	0.018	89	58-126	
1,3,5-Trimethylbenzene	mg/kg	0.02	0.018	89	56-124	
Benzene	mg/kg	0.02	0.017	86	51-123	
Ethylbenzene	mg/kg	0.02	0.017	85	61-123	
Isopropylbenzene (Cumene)	mg/kg	0.02	0.020	101	62-136	
Methyl-tert-butyl ether	mg/kg	0.02	0.018	90	60-108	
Naphthalene	mg/kg	0.02	0.015	74	65-110	
Toluene	mg/kg	0.02	0.017	84	56-120	
1,2-Dichloroethane-d4 (S)	%.			107	70-130	
4-Bromofluorobenzene (S)	%.			103	70-130	
Dibromofluoromethane (S)	%.			98	70-130	
Toluene-d8 (S)	%.			99	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

QC Batch: 382739 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV UST-WATER
Associated Lab Samples: 30348541005

METHOD BLANK: 1854823 Matrix: Water
Associated Lab Samples: 30348541005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	ND	1.0	02/06/20 13:14	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	02/06/20 13:14	
Benzene	ug/L	ND	1.0	02/06/20 13:14	
Ethylbenzene	ug/L	ND	1.0	02/06/20 13:14	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	02/06/20 13:14	
Methyl-tert-butyl ether	ug/L	ND	1.0	02/06/20 13:14	
Naphthalene	ug/L	ND	2.0	02/06/20 13:14	
Toluene	ug/L	ND	1.0	02/06/20 13:14	
1,2-Dichloroethane-d4 (S)	%.	101	70-130	02/06/20 13:14	
4-Bromofluorobenzene (S)	%.	100	70-130	02/06/20 13:14	
Dibromofluoromethane (S)	%.	95	70-130	02/06/20 13:14	
Toluene-d8 (S)	%.	99	70-130	02/06/20 13:14	

LABORATORY CONTROL SAMPLE: 1854824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.6	103	70-130	
1,3,5-Trimethylbenzene	ug/L	20	20.9	105	70-130	
Benzene	ug/L	20	20.2	101	70-130	
Ethylbenzene	ug/L	20	20.9	105	70-130	
Isopropylbenzene (Cumene)	ug/L	20	22.8	114	70-130	
Methyl-tert-butyl ether	ug/L	20	20.0	100	70-130	
Naphthalene	ug/L	20	26.1	131	55-160	
Toluene	ug/L	20	20.9	104	70-130	
1,2-Dichloroethane-d4 (S)	%.			99	70-130	
4-Bromofluorobenzene (S)	%.			100	70-130	
Dibromofluoromethane (S)	%.			96	70-130	
Toluene-d8 (S)	%.			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854882 1854883

Parameter	Units	30348499003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,4-Trimethylbenzene	ug/L	ND	20	20	23.6	19.7	118	98	52-151	18	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	23.4	19.8	117	99	53-142	16	
Benzene	ug/L	ND	20	20	23.3	19.1	116	96	50-149	19	
Ethylbenzene	ug/L	ND	20	20	23.7	19.4	118	97	63-135	20	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	25.5	21.8	127	109	50-167	16	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1854882 1854883

Parameter	Units	30348499003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Methyl-tert-butyl ether	ug/L	ND	20	20	21.9	21.2	110	106	53-123	3	
Naphthalene	ug/L	ND	20	20	29.6	23.3	148	117	30-157	24	
Toluene	ug/L	ND	20	20	22.8	19.7	114	99	59-139	15	
1,2-Dichloroethane-d4 (S)	%.						100	101	70-130		
4-Bromofluorobenzene (S)	%.						100	99	70-130		
Dibromofluoromethane (S)	%.						97	95	70-130		
Toluene-d8 (S)	%.						100	101	70-130		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

QC Batch: 384390 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 30348541001, 30348541002, 30348541003, 30348541004

SAMPLE DUPLICATE: 1862511

Parameter	Units	30348540001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	16.9	17.2	2	

SAMPLE DUPLICATE: 1862512

Parameter	Units	30348541001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	21.0	21.6	3	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA	Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: 383728

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1c	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
ML	Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
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Greensburg, PA 15601
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 1350-SOHAIL DIESEL
Pace Project No.: 30348541

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30348541001	**09-DIESEL DISP 1~3'**	EPA 5035A	383726	EPA 8260B	383746
30348541002	**10-BETWEEN D1&D2~3'**	EPA 5035A	383728	EPA 8260B	383761
30348541003	**11-DIESEL DISP2~3'**	EPA 5035A	383726	EPA 8260B	383746
30348541004	**12-LINE TO TANK~3'**	EPA 5035A	383726	EPA 8260B	383746
30348541005	**TRIP BLANK**	EPA 8260B	382739		
30348541001	**09-DIESEL DISP 1~3'**	ASTM D2974-87	384390		
30348541002	**10-BETWEEN D1&D2~3'**	ASTM D2974-87	384390		
30348541003	**11-DIESEL DISP2~3'**	ASTM D2974-87	384390		
30348541004	**12-LINE TO TANK~3'**	ASTM D2974-87	384390		

WO# : 30348541

30348541

CHAIN-OF-CUSTODY Analytical Request Document

Pace Analytical®

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields

LAB USE O... ...ber or

Company: KEYSTONE PETROLEUM

Billing Information:

Address:

Report To: DOUG KASSAY

Email To:

Copy To:

Site Collection Info/Address:

Customer Project Name/Number: 1350 - SOHAIL DIESEL

State: / County/City: Time Zone Collected: [ ] PT [ ] MT [ ] CT [ ] ET

Phone:
Email:

Site/Facility ID #: 22-16012

Compliance Monitoring? [ ] Yes [X] No

Collected By (print): KYLE ISENBERG

Purchase Order #:
Quote #:

DW PWS ID #:
DW Location Code:

Collected By (signature):

Turnaround Date Required: STANDARD

Immediately Packed on Ice: [X] Yes [ ] No

Sample Disposal: [✓] Dispose as appropriate [ ] Return [ ] Archive: ________ [ ] Hold: ________

Rush: [ ] Same Day [ ] Next Day [ ] 2 Day [ ] 3 Day [ ] 4 Day [ ] 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [ ] Yes [X] No

Analysis: ________

Container Preservative Type

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other ________

Lab Project Manager:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res Cl	# of Ctns	Analyses: DIESEL	Lab Sample # / Comments: MLC / MLC
09 - DIESEL DISP 1 ~ 3'	SL	G			2/4/2020	1530		4	X	001
10 - BETWEEN DIESEL ~ 3'	"	"			"	1540		"	X	002
11 - DIESEL DISP. 2 ~ 3'	"	"			"	1550		"	X	003
12 - LINE TO TANK ~ 3'	SL	G			2/4/2020	1600		4	X	004
TRIP BLANK										

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact	Y N (NA)
Custody Signatures Present	(Y) N NA
Collector Signature Present	Y (N) NA
Bottles Intact	(Y) N NA
Correct Bottles	(Y) N NA
Sufficient Volume	(Y) N NA
Samples Received on Ice	(Y) N NA
VOA - Headspace Acceptable	Y (N) NA
USDA Regulated Soils	Y (N) NA
Samples in Holding Time	(Y) N NA
Residual Chlorine Present	Y N (NA)
Cl Strips:	
Sample pH Acceptable	Y N (NA)
pH Strips:	
Sulfide Present	Y N (NA)
Lead Acetate Strips:	

LAB USE ONLY:
Lab Sample # / Comments:

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: (Wet) Blue Dry None

SHORT HOLDS PRESENT (<72 hours): Y N (N/A)

Packing Material Used: Foam / bubble wrap

Lab Tracking #: MA 2374221

Radchem sample(s) screened (<500 cpm): Y N (NA)

Samples received via: FEDEX UPS Client Courier (Pace Courier)

Lab Sample Temperature Info:
Temp Blank Received: Y N (NA)
Therm ID#: 10
Cooler 1 Temp Upon Receipt: 3.9 oC
Cooler 1 Therm Corr. Factor: 0 oC
Cooler 1 Corrected Temp: 3.9 oC
Comments: MLC 2-6-20

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
KYLE ISENBERG	2/4/2020 @ 1700	DOUG KASSAY	2/4/2020 @ 1700
DOUG KASSAY	2/5/20 09:45	MS / PACE	2/5/20 09:45
MS / PACE	2/5/20 18:15	RDS PACE	2-5-20 1820
RDS PACE	2-5-20 2130	[illegible signature]	2-5-20 2130

MTJL LAB USE ONLY
Table #:
Acctnum:
Template:
Prelogin:
PM:
PB:

Trip Blank Received: (Y) N NA
(HCL) MeOH TSP Other

Non Conformance(s): (YES) / NO

Page: 1 of: 1

Pace Analytical
www.paceLabs.com

Sample Receiving Non-Conformance Form (NCF)

Date: 2-6-20	Evaluated by: MLC
Client: Keystone Petroleum	

WO# : 30348541

PM: MS1 **Due Date: 02/20/20**

CLIENT: KEY PET EQP

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

X	Collection date/time missing or incorrect		Analyses or analytes: missing or clarification needed		Samples listed on COC do not match samples received (missing, additional, etc.)
X	Sample IDs on COC do not match sample labels		Required trip blanks were not received	X	Required signatures are missing

Comments/Details/Other Issues not listed above: no date, time or sample ID on sample labels
no collector signature on COC

3. Sample integrity issues: check applicable issues below and add details where appropriate:

	Samples: Past holding time		Samples: Condition needs to be brought to lab personnel's attention (details below)		Preservation: Improper
	Samples: Not field filtered		Containers: Broken or compromised		Temperature: not within acceptance criteria (typically 0-6C)
	Samples: Insufficient volume received		Containers: Incorrect		Temperature: Samples arrived frozen
	Samples: Cooler damaged or compromised		Custody Seals: Missing or compromised on samples, trip blanks or coolers	X	Vials received with improper headspace
	Samples: contain chlorine or sulfides		Packing Material: Insufficient/Improper		Other:

Comments/Details: Both Trip Blanks have Headspace > 6mm

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:	
PM Initials:	Date/Time:	

Client Comments/Instructions: