



Certificate of Analysis Summary 604946

Chemical Transportation, Inc., El Paso, TX

Project Name: 18-587-JC

Project Id:

Contact: Jeff Clark

Project Location: Akela-NM

Date Received in Lab: Thu Nov-08-18 03:45 pm

Report Date: 14-NOV-18

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	604946-001	604946-002	604946-003	604946-004	604946-005	604946-006
	Field Id:	Florida Sta. Soil #1	Florida Sta. Soil #2	Florida Sta. Soil #3	Florida Sta. Soil #4	Florida Sta. Soil #5	Florida Sta. Soil #6
	Depth:	0-5 In	0-5 In	0-5 In	0-5 In	0-5 In	0-5 In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00
BTEX by SW 8260B SUB: T104704215-18-28	Extracted:	Nov-09-18 15:30	Nov-09-18 15:30	Nov-09-18 15:30	Nov-09-18 16:00	Nov-10-18 14:00	Nov-09-18 16:00
	Analyzed:	Nov-09-18 15:47	Nov-09-18 16:03	Nov-09-18 16:20	Nov-09-18 16:36	Nov-10-18 17:01	Nov-09-18 17:09
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
		<0.000998 0.000998	<0.000990 0.000990	<0.000990 0.000990	<0.00101 0.00101	<0.000998 0.000998	<0.000998 0.000998
Benzene		<0.000998 0.000998	<0.000990 0.000990	<0.000990 0.000990	<0.00101 0.00101	0.0143 0.000998	<0.000998 0.000998
Toluene		<0.000998 0.000998	<0.000990 0.000990	<0.000990 0.000990	<0.00101 0.00101	0.00260 0.00200	<0.000998 0.000998
Ethylbenzene		<0.000998 0.000998	<0.000990 0.000990	<0.000990 0.000990	<0.00101 0.00101	0.00260 0.00200	<0.000998 0.000998
m,p-Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00198 0.00198	<0.00201 0.00201	0.00260 0.00200	<0.00200 0.00200
o-Xylene		<0.000998 0.000998	<0.000990 0.000990	<0.000990 0.000990	<0.00101 0.00101	<0.000998 0.000998	<0.000998 0.000998
Total Xylenes		<0.000998 0.000998	<0.000990 0.000990	<0.000990 0.000990	<0.00101 0.00101	0.00260 0.000998	<0.000998 0.000998
Total BTEX		<0.000998 0.000998	<0.000990 0.000990	<0.000990 0.000990	<0.00101 0.00101	0.0169 0.000998	<0.000998 0.000998
Percent Moisture by SM2540G SUB: T104704215-18-28	Extracted:	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48
	Analyzed:	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
		7.17	4.40	28.6	10.6	5.22	8.16
Percent Moisture		7.17	4.40	28.6	10.6	5.22	8.16
TPH by Texas1005 SUB: T104704215-18-28	Extracted:	Nov-09-18 15:29	Nov-09-18 15:38	Nov-09-18 15:41	Nov-09-18 15:44	Nov-09-18 15:47	Nov-09-18 15:50
	Analyzed:	Nov-10-18 04:59	Nov-10-18 06:03	Nov-10-18 06:24	Nov-10-18 06:46	Nov-12-18 12:15	Nov-10-18 07:28
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
		<53.4 53.4	<52.0 52.0	<69.3 69.3	<55.4 55.4	<1050 1050	<54.2 54.2
C6-C12 Range Hydrocarbons		<53.4 53.4	<52.0 52.0	<69.3 69.3	<55.4 55.4	<1050 1050	<54.2 54.2
C12-C28 Range Hydrocarbons		58.2 53.4	104 52.0	181 69.3	405 55.4	30500 1050	218 54.2
C28-C35 Range Hydrocarbons		<53.4 53.4	<52.0 52.0	94.5 69.3	150 55.4	12400 1050	88.3 54.2
Total TPH		58.2 53.4	104 52.0	276 69.3	555 55.4	42900 1050	306 54.2

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Version: 1.9%

Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 604946

Chemical Transportation, Inc., El Paso, TX

Project Name: 18-587-JC

Project Id:

Contact: Jeff Clark

Project Location: Akela-NM

Date Received in Lab: Thu Nov-08-18 03:45 pm

Report Date: 14-NOV-18

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	604946-007	604946-008	604946-009	604946-010	604946-011	604946-012
	Field Id:	Florida Sta. Soil #7	Florida Sta. Soil #8	Florida Sta. Soil #9	Florida Sta. Soil #10	Florida Sta. Soil #11	Florida Sta. Soil #12
	Depth:	0-5 In	0-5 In	0-5 In	0-5 In	0-5 In	0-5 In
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00
BTEX by SW 8260B SUB: T104704215-18-28	Extracted:	Nov-09-18 17:00	Nov-09-18 17:00	Nov-09-18 17:00	Nov-09-18 17:00	Nov-10-18 14:00	Nov-12-18 10:10
	Analyzed:	Nov-09-18 18:41	Nov-09-18 18:57	Nov-09-18 19:13	Nov-09-18 19:30	Nov-10-18 18:15	Nov-12-18 15:04
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00100 0.00100	<0.00101 0.00101	<0.000992 0.000992	<0.00100 0.00100	<0.00100 0.00100	<0.000996 0.000996
Toluene		<0.00100 0.00100	<0.00101 0.00101	<0.000992 0.000992	<0.00100 0.00100	<0.00100 0.00100	0.00162 0.000996
Ethylbenzene		<0.00100 0.00100	<0.00101 0.00101	<0.000992 0.000992	<0.00100 0.00100	<0.00100 0.00100	<0.000996 0.000996
m,p-Xylenes		<0.00200 0.00200	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199
o-Xylene		<0.00100 0.00100	<0.00101 0.00101	<0.000992 0.000992	<0.00100 0.00100	<0.00100 0.00100	<0.000996 0.000996
Total Xylenes		<0.00100 0.00100	<0.00101 0.00101	<0.000992 0.000992	<0.00100 0.00100	<0.00100 0.00100	<0.000996 0.000996
Total BTEX		<0.00100 0.00100	<0.00101 0.00101	<0.000992 0.000992	<0.00100 0.00100	<0.00100 0.00100	0.00162 0.000996
Percent Moisture by SM2540G SUB: T104704215-18-28	Extracted:	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48
	Analyzed:	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		21.0	7.96	6.42	7.75	7.59	15.5
TPH by Texas1005 SUB: T104704215-18-28	Extracted:	Nov-09-18 15:53	Nov-09-18 15:56	Nov-09-18 15:59	Nov-09-18 16:02	Nov-09-18 16:05	Nov-09-18 16:08
	Analyzed:	Nov-10-18 07:50	Nov-10-18 08:11	Nov-10-18 08:32	Nov-10-18 08:54	Nov-10-18 09:15	Nov-10-18 09:37
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C12 Range Hydrocarbons		<63.2 63.2	<54.2 54.2	<52.9 52.9	<53.8 53.8	<53.9 53.9	<58.6 58.6
C12-C28 Range Hydrocarbons		<63.2 63.2	410 54.2	<52.9 52.9	<53.8 53.8	24600 D 1080	7770 D 293
C28-C35 Range Hydrocarbons		<63.2 63.2	99.8 54.2	<52.9 52.9	<53.8 53.8	9460 D 1080	3150 D 293
Total TPH		<63.2 63.2	510 54.2	<52.9 52.9	<53.8 53.8	34100 53.9	10900 58.6

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Version: 1.9%

Mike Kimmel
Client Services Manager



Certificate of Analysis Summary 604946

Chemical Transportation, Inc., El Paso, TX

Project Name: 18-587-JC

Project Id:

Contact: Jeff Clark

Project Location: Akela-NM

Date Received in Lab: Thu Nov-08-18 03:45 pm

Report Date: 14-NOV-18

Project Manager: Mike Kimmel

Analysis Requested	Lab Id:	604946-013	604946-014	604946-015	604946-016		
	Field Id:	Florida Sta. Soil #13	Florida Sta. Soil #14	Florida Sta. Soil #15	Florida Sta. Soil #16		
	Depth:	0-5 In	0-5 In	0-5 In	0-5 In		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00	Nov-08-18 13:00		
BTEX by SW 8260B SUB: T104704215-18-28	Extracted:	Nov-09-18 17:00	Nov-09-18 17:00	Nov-10-18 14:00	Nov-09-18 17:00		
	Analyzed:	Nov-09-18 20:18	Nov-09-18 20:34	Nov-10-18 17:26	Nov-09-18 21:07		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00100 0.00100	<0.000990 0.000990	<0.00100 0.00100	<0.00100 0.00100		
Toluene		<0.00100 0.00100	<0.000990 0.000990	0.00102 0.00100	<0.00100 0.00100		
Ethylbenzene		<0.00100 0.00100	<0.000990 0.000990	<0.00100 0.00100	<0.00100 0.00100		
m,p-Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200		
o-Xylene		<0.00100 0.00100	<0.000990 0.000990	<0.00100 0.00100	<0.00100 0.00100		
Total Xylenes		<0.00100 0.00100	<0.000990 0.000990	<0.00100 0.00100	<0.00100 0.00100		
Total BTEX		<0.00100 0.00100	<0.000990 0.000990	0.00102 0.00100	<0.00100 0.00100		
Percent Moisture by SM2540G SUB: T104704215-18-28	Extracted:	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48		
	Analyzed:	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48	Nov-13-18 08:48		
	Units/RL:	% RL	% RL	% RL	% RL		
Percent Moisture		9.56	14.4	15.7	14.5		
TPH by Texas1005 SUB: T104704215-18-28	Extracted:	Nov-09-18 16:11	Nov-09-18 16:14	Nov-09-18 16:17	Nov-09-18 16:20		
	Analyzed:	Nov-12-18 13:20	Nov-12-18 10:50	Nov-10-18 10:20	Nov-10-18 10:41		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C12 Range Hydrocarbons		<275 275	<58.1 58.1	<58.8 58.8	<58.3 58.3		
C12-C28 Range Hydrocarbons		2970 275	231 58.1	20500 D 588	3050 58.3		
C28-C35 Range Hydrocarbons		1250 275	86.0 58.1	8250 D 588	1360 D 117		
Total TPH		4220 275	317 58.1	28800 58.8	4410 58.3		

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Mike Kimmel
Client Services Manager

Analytical Report 604946

for Chemical Transportation, Inc.

Project Manager: Jeff Clark

18-587-JC

14-NOV-18

Collected By: Client



200 East Sunset Rd, Suite E, El Paso, TX 79922

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)

Xenco-Atlanta (LELAP Lab ID #04176)

Xenco-Tampa: Florida (E87429)

Xenco-Lakeland: Florida (E84098)



14-NOV-18

Project Manager: **Jeff Clark**
Chemical Transportation, Inc.
400 Inglewood Suite E
El Paso, TX 79927

Reference: XENCO Report No(s): **604946**
18-587-JC
Project Address: Akela-NM

Jeff Clark :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 604946. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 604946 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink, appearing to read 'Mike Kimmel', is positioned above a horizontal line.

Mike Kimmel
Client Services Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

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Sample Cross Reference 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Florida Sta. Soil #1	S	11-08-18 13:00	0 - 5 In	604946-001
Florida Sta. Soil #2	S	11-08-18 13:00	0 - 5 In	604946-002
Florida Sta. Soil #3	S	11-08-18 13:00	0 - 5 In	604946-003
Florida Sta. Soil #4	S	11-08-18 13:00	0 - 5 In	604946-004
Florida Sta. Soil #5	S	11-08-18 13:00	0 - 5 In	604946-005
Florida Sta. Soil #6	S	11-08-18 13:00	0 - 5 In	604946-006
Florida Sta. Soil #7	S	11-08-18 13:00	0 - 5 In	604946-007
Florida Sta. Soil #8	S	11-08-18 13:00	0 - 5 In	604946-008
Florida Sta. Soil #9	S	11-08-18 13:00	0 - 5 In	604946-009
Florida Sta. Soil #10	S	11-08-18 13:00	0 - 5 In	604946-010
Florida Sta. Soil #11	S	11-08-18 13:00	0 - 5 In	604946-011
Florida Sta. Soil #12	S	11-08-18 13:00	0 - 5 In	604946-012
Florida Sta. Soil #13	S	11-08-18 13:00	0 - 5 In	604946-013
Florida Sta. Soil #14	S	11-08-18 13:00	0 - 5 In	604946-014
Florida Sta. Soil #15	S	11-08-18 13:00	0 - 5 In	604946-015
Florida Sta. Soil #16	S	11-08-18 13:00	0 - 5 In	604946-016



CASE NARRATIVE

Client Name: Chemical Transportation, Inc.

Project Name: 18-587-JC

Project ID:
Work Order Number(s): 604946

Report Date: 14-NOV-18
Date Received: 11/08/2018

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3069232 BTEX by SW 8260B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3069258 BTEX by SW 8260B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3069378 BTEX by SW 8260B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #1**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-001

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 7.17

Analyst: ISU

Date Prep: 11.09.18 15.29

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<53.4	53.4	mg/kg	11.10.18 04.59	U	1
C12-C28 Range Hydrocarbons	PHCG1228	58.2	53.4	mg/kg	11.10.18 04.59		1
C28-C35 Range Hydrocarbons	PHCG2835	<53.4	53.4	mg/kg	11.10.18 04.59	U	1
Total TPH	PHC635	58.2	53.4	mg/kg	11.10.18 04.59		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	117	%	70-130	11.10.18 04.59	
1-Chlorooctane	111-85-3	103	%	70-130	11.10.18 04.59	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 15.30

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	11.09.18 15.47	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	11.09.18 15.47	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	11.09.18 15.47	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.09.18 15.47	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	11.09.18 15.47	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	11.09.18 15.47	U	1
Total BTEX		<0.000998	0.000998	mg/kg	11.09.18 15.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	104	%	74-126	11.09.18 15.47	
1,2-Dichloroethane-D4	17060-07-0	93	%	80-120	11.09.18 15.47	
Toluene-D8	2037-26-5	89	%	73-132	11.09.18 15.47	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #2**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-002

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 4.4

Analyst: ISU

Date Prep: 11.09.18 15.38

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<52.0	52.0	mg/kg	11.10.18 06.03	U	1
C12-C28 Range Hydrocarbons	PHCG1228	104	52.0	mg/kg	11.10.18 06.03		1
C28-C35 Range Hydrocarbons	PHCG2835	<52.0	52.0	mg/kg	11.10.18 06.03	U	1
Total TPH	PHC635	104	52.0	mg/kg	11.10.18 06.03		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	115	%	70-130	11.10.18 06.03	
1-Chlorooctane	111-85-3	99	%	70-130	11.10.18 06.03	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 15.30

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	11.09.18 16.03	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	11.09.18 16.03	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	11.09.18 16.03	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	11.09.18 16.03	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	11.09.18 16.03	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	11.09.18 16.03	U	1
Total BTEX		<0.000990	0.000990	mg/kg	11.09.18 16.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	99	%	74-126	11.09.18 16.03	
1,2-Dichloroethane-D4	17060-07-0	93	%	80-120	11.09.18 16.03	
Toluene-D8	2037-26-5	90	%	73-132	11.09.18 16.03	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #3**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-003

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 28.59

Analyst: ISU

Date Prep: 11.09.18 15.41

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<69.3	69.3	mg/kg	11.10.18 06.24	U	1
C12-C28 Range Hydrocarbons	PHCG1228	181	69.3	mg/kg	11.10.18 06.24		1
C28-C35 Range Hydrocarbons	PHCG2835	94.5	69.3	mg/kg	11.10.18 06.24		1
Total TPH	PHC635	276	69.3	mg/kg	11.10.18 06.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	115	%	70-130	11.10.18 06.24	
1-Chlorooctane	111-85-3	101	%	70-130	11.10.18 06.24	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 15.30

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	11.09.18 16.20	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	11.09.18 16.20	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	11.09.18 16.20	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	11.09.18 16.20	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	11.09.18 16.20	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	11.09.18 16.20	U	1
Total BTEX		<0.000990	0.000990	mg/kg	11.09.18 16.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	110	%	74-126	11.09.18 16.20	
1,2-Dichloroethane-D4	17060-07-0	83	%	80-120	11.09.18 16.20	
Toluene-D8	2037-26-5	86	%	73-132	11.09.18 16.20	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #4**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-004

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 10.59

Analyst: ISU

Date Prep: 11.09.18 15.44

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<55.4	55.4	mg/kg	11.10.18 06.46	U	1
C12-C28 Range Hydrocarbons	PHCG1228	405	55.4	mg/kg	11.10.18 06.46		1
C28-C35 Range Hydrocarbons	PHCG2835	150	55.4	mg/kg	11.10.18 06.46		1
Total TPH	PHC635	555	55.4	mg/kg	11.10.18 06.46		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
o-Terphenyl	84-15-1	114	%	70-130	11.10.18 06.46		
1-Chlorooctane	111-85-3	101	%	70-130	11.10.18 06.46		

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 16.00

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.09.18 16.36	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.09.18 16.36	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.09.18 16.36	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	11.09.18 16.36	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.09.18 16.36	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.09.18 16.36	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.09.18 16.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane	1868-53-7	105	%	74-126	11.09.18 16.36		
1,2-Dichloroethane-D4	17060-07-0	94	%	80-120	11.09.18 16.36		
Toluene-D8	2037-26-5	89	%	73-132	11.09.18 16.36		



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #5**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-005

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 5.22

Analyst: ISU

Date Prep: 11.09.18 15.47

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<1050	1050	mg/kg	11.12.18 12.15	U	20
C12-C28 Range Hydrocarbons	PHCG1228	30500	1050	mg/kg	11.12.18 12.15		20
C28-C35 Range Hydrocarbons	PHCG2835	12400	1050	mg/kg	11.12.18 12.15		20
Total TPH	PHC635	42900	1050	mg/kg	11.12.18 12.15		20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	70	%	70-130	11.12.18 12.15	
1-Chlorooctane	111-85-3	75	%	70-130	11.12.18 12.15	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: JOL

Date Prep: 11.10.18 14.00

Basis: Wet Weight

Seq Number: 3069258

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	11.10.18 17.01	U	1
Toluene	108-88-3	0.0143	0.000998	mg/kg	11.10.18 17.01		1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	11.10.18 17.01	U	1
m,p-Xylenes	179601-23-1	0.00260	0.00200	mg/kg	11.10.18 17.01		1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	11.10.18 17.01	U	1
Total Xylenes	1330-20-7	0.00260	0.000998	mg/kg	11.10.18 17.01		1
Total BTEX		0.0169	0.000998	mg/kg	11.10.18 17.01		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	74-126	11.10.18 17.01	
1,2-Dichloroethane-D4	17060-07-0	97	%	80-120	11.10.18 17.01	
Toluene-D8	2037-26-5	119	%	73-132	11.10.18 17.01	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #6**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-006

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 8.16

Analyst: ISU

Date Prep: 11.09.18 15.50

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<54.2	54.2	mg/kg	11.10.18 07.28	U	1
C12-C28 Range Hydrocarbons	PHCG1228	218	54.2	mg/kg	11.10.18 07.28		1
C28-C35 Range Hydrocarbons	PHCG2835	88.3	54.2	mg/kg	11.10.18 07.28		1
Total TPH	PHC635	306	54.2	mg/kg	11.10.18 07.28		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	117	%	70-130	11.10.18 07.28	
1-Chlorooctane	111-85-3	100	%	70-130	11.10.18 07.28	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 16.00

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	11.09.18 17.09	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	11.09.18 17.09	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	11.09.18 17.09	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.09.18 17.09	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	11.09.18 17.09	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	11.09.18 17.09	U	1
Total BTEX		<0.000998	0.000998	mg/kg	11.09.18 17.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	74-126	11.09.18 17.09	
1,2-Dichloroethane-D4	17060-07-0	96	%	80-120	11.09.18 17.09	
Toluene-D8	2037-26-5	90	%	73-132	11.09.18 17.09	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #7**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-007

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 21.01

Analyst: ISU

Date Prep: 11.09.18 15.53

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<63.2	63.2	mg/kg	11.10.18 07.50	U	1
C12-C28 Range Hydrocarbons	PHCG1228	<63.2	63.2	mg/kg	11.10.18 07.50	U	1
C28-C35 Range Hydrocarbons	PHCG2835	<63.2	63.2	mg/kg	11.10.18 07.50	U	1
Total TPH	PHC635	<63.2	63.2	mg/kg	11.10.18 07.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	112	%	70-130	11.10.18 07.50	
1-Chlorooctane	111-85-3	98	%	70-130	11.10.18 07.50	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 17.00

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.09.18 18.41	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.09.18 18.41	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.09.18 18.41	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.09.18 18.41	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.09.18 18.41	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.09.18 18.41	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.09.18 18.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	106	%	74-126	11.09.18 18.41	
1,2-Dichloroethane-D4	17060-07-0	98	%	80-120	11.09.18 18.41	
Toluene-D8	2037-26-5	84	%	73-132	11.09.18 18.41	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #8**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-008

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 7.96

Analyst: ISU

Date Prep: 11.09.18 15.56

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<54.2	54.2	mg/kg	11.10.18 08.11	U	1
C12-C28 Range Hydrocarbons	PHCG1228	410	54.2	mg/kg	11.10.18 08.11		1
C28-C35 Range Hydrocarbons	PHCG2835	99.8	54.2	mg/kg	11.10.18 08.11		1
Total TPH	PHC635	510	54.2	mg/kg	11.10.18 08.11		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
o-Terphenyl	84-15-1	98	%	70-130	11.10.18 08.11		
1-Chlorooctane	111-85-3	98	%	70-130	11.10.18 08.11		

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 17.00

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.09.18 18.57	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.09.18 18.57	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.09.18 18.57	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	11.09.18 18.57	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.09.18 18.57	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.09.18 18.57	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.09.18 18.57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane	1868-53-7	116	%	74-126	11.09.18 18.57		
1,2-Dichloroethane-D4	17060-07-0	115	%	80-120	11.09.18 18.57		
Toluene-D8	2037-26-5	95	%	73-132	11.09.18 18.57		



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #9**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-009

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 6.42

Analyst: ISU

Date Prep: 11.09.18 15.59

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<52.9	52.9	mg/kg	11.10.18 08.32	U	1
C12-C28 Range Hydrocarbons	PHCG1228	<52.9	52.9	mg/kg	11.10.18 08.32	U	1
C28-C35 Range Hydrocarbons	PHCG2835	<52.9	52.9	mg/kg	11.10.18 08.32	U	1
Total TPH	PHC635	<52.9	52.9	mg/kg	11.10.18 08.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	115	%	70-130	11.10.18 08.32	
1-Chlorooctane	111-85-3	98	%	70-130	11.10.18 08.32	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 17.00

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000992	0.000992	mg/kg	11.09.18 19.13	U	1
Toluene	108-88-3	<0.000992	0.000992	mg/kg	11.09.18 19.13	U	1
Ethylbenzene	100-41-4	<0.000992	0.000992	mg/kg	11.09.18 19.13	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	11.09.18 19.13	U	1
o-Xylene	95-47-6	<0.000992	0.000992	mg/kg	11.09.18 19.13	U	1
Total Xylenes	1330-20-7	<0.000992	0.000992	mg/kg	11.09.18 19.13	U	1
Total BTEX		<0.000992	0.000992	mg/kg	11.09.18 19.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	103	%	74-126	11.09.18 19.13	
1,2-Dichloroethane-D4	17060-07-0	93	%	80-120	11.09.18 19.13	
Toluene-D8	2037-26-5	89	%	73-132	11.09.18 19.13	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #10**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-010

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 7.75

Analyst: ISU

Date Prep: 11.09.18 16.02

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<53.8	53.8	mg/kg	11.10.18 08.54	U	1
C12-C28 Range Hydrocarbons	PHCG1228	<53.8	53.8	mg/kg	11.10.18 08.54	U	1
C28-C35 Range Hydrocarbons	PHCG2835	<53.8	53.8	mg/kg	11.10.18 08.54	U	1
Total TPH	PHC635	<53.8	53.8	mg/kg	11.10.18 08.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	123	%	70-130	11.10.18 08.54	
1-Chlorooctane	111-85-3	107	%	70-130	11.10.18 08.54	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 17.00

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.09.18 19.30	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.09.18 19.30	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.09.18 19.30	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.09.18 19.30	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.09.18 19.30	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.09.18 19.30	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.09.18 19.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	108	%	74-126	11.09.18 19.30	
1,2-Dichloroethane-D4	17060-07-0	82	%	80-120	11.09.18 19.30	
Toluene-D8	2037-26-5	91	%	73-132	11.09.18 19.30	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #11**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-011

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 7.59

Analyst: ISU

Date Prep: 11.09.18 16.05

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<53.9	53.9	mg/kg	11.10.18 09.15	U	1
C12-C28 Range Hydrocarbons	PHCG1228	24600	1080	mg/kg	11.12.18 11.54	D	20
C28-C35 Range Hydrocarbons	PHCG2835	9460	1080	mg/kg	11.12.18 11.54	D	20
Total TPH	PHC635	34100	53.9	mg/kg	11.12.18 11.54		20

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	94	%	70-130	11.10.18 09.15	
1-Chlorooctane	111-85-3	92	%	70-130	11.10.18 09.15	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: JOL

Date Prep: 11.10.18 14.00

Basis: Wet Weight

Seq Number: 3069258

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.10.18 18.15	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.10.18 18.15	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.10.18 18.15	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.10.18 18.15	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.10.18 18.15	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.10.18 18.15	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.10.18 18.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	93	%	74-126	11.10.18 18.15	
1,2-Dichloroethane-D4	17060-07-0	93	%	80-120	11.10.18 18.15	
Toluene-D8	2037-26-5	112	%	73-132	11.10.18 18.15	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #12**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-012

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 15.47

Analyst: ISU

Date Prep: 11.09.18 16.08

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<58.6	58.6	mg/kg	11.10.18 09.37	U	1
C12-C28 Range Hydrocarbons	PHCG1228	7770	293	mg/kg	11.12.18 12.58	D	5
C28-C35 Range Hydrocarbons	PHCG2835	3150	293	mg/kg	11.12.18 12.58	D	5
Total TPH	PHC635	10900	58.6	mg/kg	11.12.18 12.58		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	96	%	70-130	11.10.18 09.37	
1-Chlorooctane	111-85-3	104	%	70-130	11.10.18 09.37	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: JOL

Date Prep: 11.12.18 10.10

Basis: Wet Weight

Seq Number: 3069378

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996	mg/kg	11.12.18 15.04	U	1
Toluene	108-88-3	0.00162	0.000996	mg/kg	11.12.18 15.04		1
Ethylbenzene	100-41-4	<0.000996	0.000996	mg/kg	11.12.18 15.04	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	11.12.18 15.04	U	1
o-Xylene	95-47-6	<0.000996	0.000996	mg/kg	11.12.18 15.04	U	1
Total Xylenes	1330-20-7	<0.000996	0.000996	mg/kg	11.12.18 15.04	U	1
Total BTEX		0.00162	0.000996	mg/kg	11.12.18 15.04		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	101	%	74-126	11.12.18 15.04	
1,2-Dichloroethane-D4	17060-07-0	94	%	80-120	11.12.18 15.04	
Toluene-D8	2037-26-5	105	%	73-132	11.12.18 15.04	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #13**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-013

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 9.56

Analyst: ISU

Date Prep: 11.09.18 16.11

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<275	275	mg/kg	11.12.18 13.20	U	5
C12-C28 Range Hydrocarbons	PHCG1228	2970	275	mg/kg	11.12.18 13.20		5
C28-C35 Range Hydrocarbons	PHCG2835	1250	275	mg/kg	11.12.18 13.20		5
Total TPH	PHC635	4220	275	mg/kg	11.12.18 13.20		5

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	92	%	70-130	11.12.18 13.20	
1-Chlorooctane	111-85-3	88	%	70-130	11.12.18 13.20	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 17.00

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.09.18 20.18	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.09.18 20.18	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.09.18 20.18	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.09.18 20.18	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.09.18 20.18	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.09.18 20.18	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.09.18 20.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	116	%	74-126	11.09.18 20.18	
1,2-Dichloroethane-D4	17060-07-0	108	%	80-120	11.09.18 20.18	
Toluene-D8	2037-26-5	99	%	73-132	11.09.18 20.18	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #14**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-014

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 14.4

Analyst: ISU

Date Prep: 11.09.18 16.14

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<58.1	58.1	mg/kg	11.12.18 10.50	U	1
C12-C28 Range Hydrocarbons	PHCG1228	231	58.1	mg/kg	11.12.18 10.50		1
C28-C35 Range Hydrocarbons	PHCG2835	86.0	58.1	mg/kg	11.12.18 10.50		1
Total TPH	PHC635	317	58.1	mg/kg	11.12.18 10.50		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
o-Terphenyl	84-15-1	115	%	70-130	11.12.18 10.50		
1-Chlorooctane	111-85-3	114	%	70-130	11.12.18 10.50		

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 17.00

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	11.09.18 20.34	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	11.09.18 20.34	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	11.09.18 20.34	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	11.09.18 20.34	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	11.09.18 20.34	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	11.09.18 20.34	U	1
Total BTEX		<0.000990	0.000990	mg/kg	11.09.18 20.34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
Dibromofluoromethane	1868-53-7	115	%	74-126	11.09.18 20.34		
1,2-Dichloroethane-D4	17060-07-0	101	%	80-120	11.09.18 20.34		
Toluene-D8	2037-26-5	83	%	73-132	11.09.18 20.34		



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #15**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-015

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 15.68

Analyst: ISU

Date Prep: 11.09.18 16.17

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<58.8	58.8	mg/kg	11.10.18 10.20	U	1
C12-C28 Range Hydrocarbons	PHCG1228	20500	588	mg/kg	11.12.18 12.37	D	10
C28-C35 Range Hydrocarbons	PHCG2835	8250	588	mg/kg	11.12.18 12.37	D	10
Total TPH	PHC635	28800	58.8	mg/kg	11.12.18 12.37		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	94	%	70-130	11.10.18 10.20	
1-Chlorooctane	111-85-3	98	%	70-130	11.10.18 10.20	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: JOL

% Moisture:

Analyst: JOL

Date Prep: 11.10.18 14.00

Basis: Wet Weight

Seq Number: 3069258

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.10.18 17.26	U	1
Toluene	108-88-3	0.00102	0.00100	mg/kg	11.10.18 17.26		1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.10.18 17.26	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.10.18 17.26	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.10.18 17.26	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.10.18 17.26	U	1
Total BTEX		0.00102	0.00100	mg/kg	11.10.18 17.26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	102	%	74-126	11.10.18 17.26	
1,2-Dichloroethane-D4	17060-07-0	98	%	80-120	11.10.18 17.26	
Toluene-D8	2037-26-5	103	%	73-132	11.10.18 17.26	



Certificate of Analytical Results 604946

Chemical Transportation, Inc., El Paso, TX

18-587-JC

Sample Id: **Florida Sta. Soil #16**

Matrix: Soil

Date Received: 11.08.18 15.45

Lab Sample Id: 604946-016

Date Collected: 11.08.18 13.00

Sample Depth: 0 - 5 In

Analytical Method: TPH by Texas1005

Prep Method: TX1005P

Tech: ISU

% Moisture: 14.54

Analyst: ISU

Date Prep: 11.09.18 16.20

Basis: Dry Weight

Seq Number: 3069272

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Range Hydrocarbons	PHC612	<58.3	58.3	mg/kg	11.10.18 10.41	U	1
C12-C28 Range Hydrocarbons	PHCG1228	3050	58.3	mg/kg	11.10.18 10.41		1
C28-C35 Range Hydrocarbons	PHCG2835	1360	117	mg/kg	11.12.18 14.03	D	2
Total TPH	PHC635	4410	58.3	mg/kg	11.12.18 14.03		2

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
o-Terphenyl	84-15-1	94	%	70-130	11.10.18 10.41	
1-Chlorooctane	111-85-3	108	%	70-130	11.10.18 10.41	

Analytical Method: BTEX by SW 8260B

Prep Method: SW5030B

Tech: SAD

% Moisture:

Analyst: SAD

Date Prep: 11.09.18 17.00

Basis: Wet Weight

Seq Number: 3069232

SUB: T104704215-18-28

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.09.18 21.07	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.09.18 21.07	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.09.18 21.07	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.09.18 21.07	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.09.18 21.07	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.09.18 21.07	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.09.18 21.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
Dibromofluoromethane	1868-53-7	124	%	74-126	11.09.18 21.07	
1,2-Dichloroethane-D4	17060-07-0	103	%	80-120	11.09.18 21.07	
Toluene-D8	2037-26-5	99	%	73-132	11.09.18 21.07	

Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the quantitation limit and above the detection limit.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.
- JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

PQL Practical Quantitation Limit

MQL Method Quantitation Limit

LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample

BLK

Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample

BKSD/LCSD

Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate

MS

Matrix Spike

MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 604946

Chemical Transportation, Inc. 18-587-JC

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3069397

Matrix: Soil

Parent Sample Id: 604946-001

MD Sample Id: 604946-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	7.17	7.15	0	10	%	11.13.18 08:48	

Analytical Method: Percent Moisture by SM2540G

Seq Number: 3069397

Matrix: Soil

Parent Sample Id: 604946-011

MD Sample Id: 604946-011 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	7.59	7.01	8	10	%	11.13.18 08:48	

Analytical Method: TPH by Texas1005

Seq Number: 3069272

Matrix: Solid

MB Sample Id: 7665865-1-BLK

LCS Sample Id: 7665865-1-BKS

Prep Method: TX1005P

Date Prep: 11.09.18

LCSD Sample Id: 7665865-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Range Hydrocarbons	<50.0	1000	935	94	935	94	75-125	0	20	mg/kg	11.10.18 04:16	
C12-C28 Range Hydrocarbons	<50.0	1000	1200	120	1200	120	75-125	0	20	mg/kg	11.10.18 04:16	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits			Units	Analysis Date	
o-Terphenyl	109		99		93		70-130			%	11.10.18 04:16	
1-Chlorooctane	95		105		102		70-130			%	11.10.18 04:16	

Analytical Method: TPH by Texas1005

Seq Number: 3069272

Matrix: Soil

Parent Sample Id: 604946-001

MS Sample Id: 604946-001 S

Prep Method: TX1005P

Date Prep: 11.09.18

MSD Sample Id: 604946-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Range Hydrocarbons	<53.6	1070	1030	96	981	92	75-125	5	20	mg/kg	11.10.18 05:20	
C12-C28 Range Hydrocarbons	58.2	1070	1400	125	1380	124	75-125	1	20	mg/kg	11.10.18 05:20	
Surrogate				MS %Rec	MS Flag		MSD %Rec	MSD Flag	Limits	Units	Analysis Date	
o-Terphenyl				98			92		70-130	%	11.10.18 05:20	
1-Chlorooctane				111			104		70-130	%	11.10.18 05:20	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chemical Transportation, Inc.
18-587-JC

Analytical Method: BTEX by SW 8260B

Seq Number: 3069232

MB Sample Id: 7665900-1-BLK

Matrix: Solid

LCS Sample Id: 7665900-1-BKS

Prep Method: SW5030B

Date Prep: 11.09.18

LCSD Sample Id: 7665900-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.103	103	0.108	108	62-132	5	25	mg/kg	11.09.18 12:47	
Toluene	<0.00100	0.100	0.113	113	0.116	116	66-124	3	25	mg/kg	11.09.18 12:47	
Ethylbenzene	<0.00100	0.100	0.108	108	0.112	112	71-134	4	25	mg/kg	11.09.18 12:47	
m,p-Xylenes	<0.00200	0.200	0.235	118	0.249	125	69-128	6	25	mg/kg	11.09.18 12:47	
o-Xylene	<0.00100	0.100	0.112	112	0.121	121	72-131	8	25	mg/kg	11.09.18 12:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	102		97		91		74-126	%	11.09.18 12:47
1,2-Dichloroethane-D4	101		100		100		80-120	%	11.09.18 12:47
Toluene-D8	82		95		94		73-132	%	11.09.18 12:47

Analytical Method: BTEX by SW 8260B

Seq Number: 3069258

MB Sample Id: 7665921-1-BLK

Matrix: Solid

LCS Sample Id: 7665921-1-BKS

Prep Method: SW5030B

Date Prep: 11.10.18

LCSD Sample Id: 7665921-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.0500	0.0517	103	0.0487	97	62-132	6	25	mg/kg	11.10.18 12:36	
Toluene	<0.00100	0.0500	0.0497	99	0.0474	95	66-124	5	25	mg/kg	11.10.18 12:36	
Ethylbenzene	<0.00100	0.0500	0.0517	103	0.0501	100	71-134	3	25	mg/kg	11.10.18 12:36	
m,p-Xylenes	<0.00200	0.100	0.103	103	0.0995	100	69-128	3	25	mg/kg	11.10.18 12:36	
o-Xylene	<0.00100	0.0500	0.0517	103	0.0508	102	72-131	2	25	mg/kg	11.10.18 12:36	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	100		101		98		74-126	%	11.10.18 12:36
1,2-Dichloroethane-D4	97		97		98		80-120	%	11.10.18 12:36
Toluene-D8	100		96		98		73-132	%	11.10.18 12:36

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference $[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
 $\text{Log Diff.} = \text{Log}(\text{Sample Duplicate}) - \text{Log}(\text{Original Sample})$ LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec

Chemical Transportation, Inc.
18-587-JC

Analytical Method: BTEX by SW 8260B

Seq Number: 3069378

MB Sample Id: 7666001-1-BLK

Matrix: Solid

LCS Sample Id: 7666001-1-BKS

Prep Method: SW5030B

Date Prep: 11.12.18

LCSD Sample Id: 7666001-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.0500	0.0427	85	0.0427	85	62-132	0	25	mg/kg	11.12.18 11:48	
Toluene	<0.00100	0.0500	0.0421	84	0.0430	86	66-124	2	25	mg/kg	11.12.18 11:48	
Ethylbenzene	<0.00100	0.0500	0.0446	89	0.0448	90	71-134	0	25	mg/kg	11.12.18 11:48	
m,p-Xylenes	<0.00200	0.100	0.0871	87	0.0889	89	69-128	2	25	mg/kg	11.12.18 11:48	
o-Xylene	<0.00100	0.0500	0.0447	89	0.0469	94	72-131	5	25	mg/kg	11.12.18 11:48	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	100		100		99		74-126	%	11.12.18 11:48
1,2-Dichloroethane-D4	95		96		91		80-120	%	11.12.18 11:48
Toluene-D8	100		98		100		73-132	%	11.12.18 11:48

Analytical Method: BTEX by SW 8260B

Seq Number: 3069232

Parent Sample Id: 604946-001

Matrix: Soil

MS Sample Id: 604946-001 S

Prep Method: SW5030B

Date Prep: 11.09.18

MSD Sample Id: 604946-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000996	0.0996	0.0734	74	0.0762	76	62-132	4	25	mg/kg	11.09.18 17:28	
Toluene	<0.000996	0.0996	0.0864	87	0.0843	84	66-124	2	25	mg/kg	11.09.18 17:28	
Ethylbenzene	<0.000996	0.0996	0.0778	78	0.0783	78	71-134	1	25	mg/kg	11.09.18 17:28	
m,p-Xylenes	<0.00199	0.199	0.170	85	0.174	87	69-128	2	25	mg/kg	11.09.18 17:28	
o-Xylene	<0.000996	0.0996	0.0805	81	0.0819	82	72-131	2	25	mg/kg	11.09.18 17:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	102		98		74-126	%	11.09.18 17:28
1,2-Dichloroethane-D4	95		90		80-120	%	11.09.18 17:28
Toluene-D8	88		87		73-132	%	11.09.18 17:28

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference $[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD ResultMS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



QC Summary 604946

Chemical Transportation, Inc. 18-587-JC

Analytical Method: BTEX by SW 8260B

Seq Number: 3069258

Parent Sample Id: 604946-011

Matrix: Soil

MS Sample Id: 604946-011 S

Prep Method: SW5030B

Date Prep: 11.10.18

MSD Sample Id: 604946-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000996	0.0498	0.0462	93	0.0490	98	62-132	6	25	mg/kg	11.10.18 17:50	
Toluene	<0.000996	0.0498	0.0554	111	0.0582	116	66-124	5	25	mg/kg	11.10.18 17:50	
Ethylbenzene	<0.000996	0.0498	0.0463	93	0.0471	94	71-134	2	25	mg/kg	11.10.18 17:50	
m,p-Xylenes	<0.00199	0.0996	0.0864	87	0.0880	88	69-128	2	25	mg/kg	11.10.18 17:50	
o-Xylene	<0.000996	0.0498	0.0406	82	0.0412	82	72-131	1	25	mg/kg	11.10.18 17:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	101		103		74-126	%	11.10.18 17:50
1,2-Dichloroethane-D4	95		97		80-120	%	11.10.18 17:50
Toluene-D8	116		115		73-132	%	11.10.18 17:50

Analytical Method: BTEX by SW 8260B

Seq Number: 3069378

Parent Sample Id: 604794-003

Matrix: Soil

MS Sample Id: 604794-003 S

Prep Method: SW5030B

Date Prep: 11.12.18

MSD Sample Id: 604794-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000994	0.0497	0.0414	83	0.0387	78	62-132	7	25	mg/kg	11.12.18 12:37	
Toluene	<0.000994	0.0497	0.0397	80	0.0386	77	66-124	3	25	mg/kg	11.12.18 12:37	
Ethylbenzene	<0.000994	0.0497	0.0433	87	0.0411	82	71-134	5	25	mg/kg	11.12.18 12:37	
m,p-Xylenes	<0.00199	0.0994	0.0828	83	0.0809	81	69-128	2	25	mg/kg	11.12.18 12:37	
o-Xylene	<0.000994	0.0497	0.0439	88	0.0422	85	72-131	4	25	mg/kg	11.12.18 12:37	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
Dibromofluoromethane	100		101		74-126	%	11.12.18 12:37
1,2-Dichloroethane-D4	95		98		80-120	%	11.12.18 12:37
Toluene-D8	98		99		73-132	%	11.12.18 12:37

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

$[D] = 100 * (C - A) / B$
 $RPD = 200 * |(C - E) / (C + E)|$
 $[D] = 100 * (C) / [B]$
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



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San Antonio, TX (210) 509-3334

Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge, LA (832) 712-8143

Service Center - Amarillo, TX (806) 78-4514
Service Center - Hobbs, NM (575) 392-7550

CHAIN OF CUSTODY

Page 1 of 2

Revision 2016.1

Client / Reporting Information		Project Information		Analytical Information		Matrix Codes									
Company Name / Branch: CHENOWETH TRANSPORTATION INC		Project Name/Number: 18-587-JC													
Company Address: 1945 E Jackson St. Mesquite		Project Location: AKELA NM													
Email: Jeff Clark@CTI-AZ.com		Invoice To: CTI													
Phone No: 18-587-JC		PO Number: 18-587-JC													
Project Contact: Jeff Clark															
Sample's Name: TPH TX 1005															
Field ID / Point of Collection		Collection		Number of preserved bottles		Field Comments									
No.	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE		
1	FLORIDA STA. SOIC 1	5/11/18	1300	S	1										
2															
3															
4															
5															
6															
7															
8															
9															
10															
Turnaround Time (Business days)															
Data Deliverable Information															
☐ Same Day TAT		☐ 5 Day TAT		☐ Level II Std QC		☐ Level IV (Full Data Pkg / raw data)									
☐ Next Day EMERGENCY		☐ 7 Day TAT		☐ Level III Std QC+ Forms		☐ TRRP Level IV									
☒ 2 Day EMERGENCY		☐ Contract TAT		☐ Level 3 (CLP Forms)		☐ UST / RG 411									
☐ 3 Day EMERGENCY				☐ Level II Report with TRRP checklist											
TAT Starts Day received by Lab, if received by 5:00 pm															
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING CARRIER DELIVERY															
Relinquished by: 345M 11/8/18		Date Time: 11/8/18		Received By: 11-8-18		Date Time: 11-8-18		Relinquished By: 11-8-18		Date Time: 11-8-18		Received By: 11-8-18			
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Relinquished by: 345M 11/8/18		Date Time: 													

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Phoenix, AZ (480) 355-0900
Service Center - Baton Rouge

Service Center- Amarillo, TX (806)678-4514
Service Center- Hobbs, NM (575) 392-7550

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Xenco Job #

164906

Client / Reporting Information						Project Information							Analytical Information								Matrix Codes		
Company Name / Branch: Chester Transportation Inc,						Project Name/Number: 18-587-JC																	
Company Address: 1945 E. Jackson St Box A2 Jeff, Clark @ CII-AZ.com						Project Location: AKEIA, NM																	
Email: Jeff, Clark @ CII-AZ.com						Invoice To: CTI																	
Phone No:						PO Number: 18-587-JC																	
Project Contact: Jeff Clark																							
Samplers Name: [Signature]																							
No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Notes:								
1	Florida Soil	11"	5/11/18	1500	S	1								X	TPH TX 1005 Total BTEX								
2		12"												X									
3		13"												X									
4		14"												X									
5		15"												X									
6		16"												X									
7																							
8																							
9																							
10																							
Turnaround Time (Business days)						Data Deliverable Information																	
☐ Same Day TAT						☐ Level II Std QC									☐ Level IV (Full Data Pkg / raw data)								
☒ Next Day EMERGENCY						☐ Level III Std QC+ Forms									☐ TRRP Level IV								
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☐ 3 Day EMERGENCY						☐ Level II Report with TRRP checklist																	
TAT Starts Day received by Lab, if received by 5:00 pm															FED-EX / UPS: Tracking #								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COLLECTOR DELIVERY																							
Relinquished By: [Signature]			Date Time: 11/8/18 545		Received By: [Signature]			Date Time: 11/8/18 11:58-18		Retrieved By: [Signature]			Date Time: 11/8/18 12:00										
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Relinquished By: [Signature]			Date Time:		Received																		



Inter-Office Shipment

Page 1 of 2

IOS Number **117006**

Date/Time: 11/08/18 18:04

Created by: Erica Morales

Please send report to: Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Houston**

Air Bill No.: 409248461001

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
604946-001	S	Florida Sta. Soil #1	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-001	S	Florida Sta. Soil #1	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-002	S	Florida Sta. Soil #2	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-002	S	Florida Sta. Soil #2	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-003	S	Florida Sta. Soil #3	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-003	S	Florida Sta. Soil #3	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-004	S	Florida Sta. Soil #4	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-004	S	Florida Sta. Soil #4	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-005	S	Florida Sta. Soil #5	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-005	S	Florida Sta. Soil #5	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-006	S	Florida Sta. Soil #6	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-006	S	Florida Sta. Soil #6	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-007	S	Florida Sta. Soil #7	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-007	S	Florida Sta. Soil #7	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-008	S	Florida Sta. Soil #8	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-008	S	Florida Sta. Soil #8	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-009	S	Florida Sta. Soil #9	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-009	S	Florida Sta. Soil #9	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-010	S	Florida Sta. Soil #10	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-010	S	Florida Sta. Soil #10	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-011	S	Florida Sta. Soil #11	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-011	S	Florida Sta. Soil #11	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-012	S	Florida Sta. Soil #12	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-012	S	Florida Sta. Soil #12	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35 ↓	
604946-013	S	Florida Sta. Soil #13	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	



Inter-Office Shipment

Page 2 of 2

IOS Number **117006**

Date/Time: 11/08/18 18:04

Created by: Erica Morales

Please send report to: Mike Kimmel

Lab# From: **El Paso**

Delivery Priority: Fedex

Address: 200 East Sunset Rd, Suite E, El Paso, TX 79922

Lab# To: **Houston**

Air Bill No.: 409248461001

E-Mail: mike.kimmel@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
604946-013	S	Florida Sta. Soil #13	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35	
604946-014	S	Florida Sta. Soil #14	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-014	S	Florida Sta. Soil #14	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35	
604946-015	S	Florida Sta. Soil #15	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35	
604946-015	S	Florida Sta. Soil #15	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	
604946-016	S	Florida Sta. Soil #16	11/08/18 13:00	TX1005	TPH by Texas1005	11/12/18	11/22/18	MKI	PHCC12C28 PHCC28C35	
604946-016	S	Florida Sta. Soil #16	11/08/18 13:00	SW8260BTX	BTEX by SW 8260B	11/12/18	11/22/18	MKI	BZ BZME EBZ XYLENES	

Inter Office Shipment or Sample Comments:

Relinquished By:

Erica Morales

Date Relinquished: 11/08/2018

Received By:

Rene Vandenberghe

Date Received: 11/09/2018 09:10

Cooler Temperature: 2.1



XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Houston

IOS #: 117006

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : hou-068

Sent By: Erica Morales

Date Sent: 11/08/2018 06:04 PM

Received By: Rene Vandenberghe

Date Received: 11/09/2018 09:10 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	2.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:


Rene Vandenberghe

Date: 11/09/2018



XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Chemical Transportation, Inc.

Date/ Time Received: 11/08/2018 03:45:00 PM

Work Order #: 604946

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR1

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	11.3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	No
#5 Custody Seals intact on sample bottles?	No
#6 *Custody Seals Signed and dated?	No
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes Xenco Stafford
#18 Water VOC samples have zero headspace?	N/A

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:


Erica Morales

Date: 11/08/2018

Checklist reviewed by:


Mike Kimmel

Date: 11/14/2018