APPROVED
By Olivia Yu at 10:46 am, May 03, 2017

NMOCD approves 1RP-4532 for closure, given the provided additional information.

1RP-4532

ADDENDUM
DELINEATION REPORT
Eunice South Justice 4 Inch Down Leg
Lea County, New Mexico

Latitude: 32° 07'' 09.6600" North
Longitude: 103° 07' 27.7680" West

LAI Project No. 17-0121-01

April 11, 2017

Prepared for:

Targa Midstream Services, LLC
P.O. Box 1909
Eunice, New Mexico 88231

Prepared by:

Larson & Associates, Inc.
507 North Marienfeld Street, Suite 205
Midland, Texas 79701

Mark J. Larson, P.G.

Certified Professional Geologist #10490

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1.0 INTRODUCTION

Larson & Associates, Inc. (LAI) submits this addendum delineation report to the New Mexico Oil Conservation Division (OCD) District 1 on behalf of Targa Midstream Services, LLC (Targa) for a natural gas liquids (NGL) release from a down leg on the Eunice South Justice 4 Inch Pipeline (Site) located in Unit E (SW/4, NW/4), Section 24, Township 25 South, Range 37 East, in Lea County, New Mexico. The Site is located about 3 miles east of Jal, New Mexico. The release occurred near the northwest corner of the pad for the Legacy Reserves Operating, LP, South Justice Unit Well #E202 (API #30-025-31759). The release was discovered on December 18, 2016 and was reported to the New Mexico Oil Conservation Division (OCD) District 1, on the same day.

On December 18, 2016, Targa personnel responded to the release and replaced the down leg. Targa personnel estimated that approximately ten (10) barrels (bbl) of liquid was released with no liquid recovered. The leak caused NGL to accumulate on the ground around the down leg and covered an area approximately 10 x 20 feet or about 200 square feet. Wind dispersed NGL south and covered the west side of the well pad over an area measuring about 50 x 100 feet or about 5,000 square feet. Targa personnel replaced the down leg and initiated cleanup. Verbal notification was provided to the New Mexico Oil Conservation Division (OCD) District 1 (Mark Whitaker) on December 19, 2016. The initial C-141 was submitted on December 20, 2016. The OCD assigned the release remediation permit number 1RP-4532. Cleanup was performed between December 19, 2016 and January 4, 2017. The geodetic position is 32° 07'' 09.6600" North and 103° 07' 27.7680" West. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Physical Setting

The physical setting is as follows:

- The surface elevation is about 3,084 feet above mean sea level (MSL);
- The topography slopes gently to the south and southeast;
- No surface water features are present within 1 mile of the Site;
- The surface soil is designated "Simona-Upton association", consisting of about 8 inches of gravelly fine sandy loam, underlain by approximately 8 inches of fine sandy loam overlying caliche;
- The soil is derived from reworking the Blackwater Draw (Pleistocene) and Ogallala (Pliocene) formations, in descending order;
- Groundwater occurs at about 70 feet below ground surface (bgs) according to records from the New Mexico Office of the State Engineer (NMOSE) and U.S. Geological Survey;
- The nearest fresh water well is located in Unit P (SE/4, SE/4), Section 14, Township 25 South, Range 37 East about 0.25 miles northwest (up gradient).

1.2 Recommended Remediation Action Levels

Recommended remediation action levels (RRALs) were calculated for benzene, total BTEX (benzene, ethylbenzene, toluene and xylenes) and total petroleum hydrocarbons (TPH) based on the following

criteria established by the New Mexico Oil Conservation Division (OCD) in *"Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"*:

Criteria	*Result*	*Score*
Depth-to-Groundwater	50 - 99 feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0

The following RRAL apply to the release for ranking score: 10

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 1,000 mg/Kg

2.0 REMEDIATION

Between December 19, 2016 and January 4, 2017, Targa personnel supervised excavation of soil from around the down leg and the spray area south of the Site. Soil was excavated from an area around the down leg measuring approximately 10 x 20 feet to about 4 feet below ground surface (bgs). Soil was excavated from the spray area to about 1 foot bgs. Approximately 308 cubic yards of contaminated soil was hauled and disposed at Sundance Services, Inc., between December 19, 2016 and January 4, 2017.

On January 3, 2017, Targa personnel collected delineation soil samples from near the center of the sidewalls and bottom near the center of the excavation. The sidewall samples were collected about 3 feet bgs whereas the bottom sample was collected at about 4 feet bgs. The samples were delivered to Cardinal Laboratories in Hobbs, New Mexico, which analyzed the samples for total petroleum hydrocarbons (TPH), including gasoline range organics (C6 – C10) and diesel range organics (>C10 – C28) by EPA SW-846 Method 8015M and chloride by Method SM4500ClB. The in-situ TPH concentrations are below the method reporting limit (RL) and RRAL in all samples. The in-situ chloride concentrations are below the OCD delineation limit of 250 mg/Kg in the sidewall samples. The in-situ chloride concentration in the bottom sample at about 4 feet bgs is 304 mg/Kg and above the OCD delineation limit of 250 mg/Kg. On January 6, 2017, Targa personnel used a backhoe to collect another bottom sample near the center of the excavation at about 5 feet bgs to delineate the chloride. Cardinal Laboratories reported chloride at 48.0 mg/Kg and below the OCD delineation limit. Table 1 presents the analytical data summary. Figure 2a presents a focused aerial photograph and approximate location of the excavation and soil samples.

On March 16, 2017, LAI personnel attended at meeting with OCD District 1 Environmental Specialist, Olivia Yu, to present a delineation report for the release. On March 17, 2017, OCD responded to the delineation report and requested collection and analysis of confirmation soil samples from a depth of 2 feet in 4 cardinal directions (north, south, east and west) from the overspray area and a background sample from the pasture located north of the release location. Appendix A presents OCD correspondence.

3.0 CONFIRMATION SOIL SAMPLES

On March 22, 2017 and April 4, 2017, LAI personnel collected confirmation soil samples from four (4) locations in four (4) cardinal directions from the overspray area and a background sample from the pasture about 200 feet northeast from the location. The samples were collected using direct push technology (DPT) from two (2) feet bgs. The samples were collected in laboratory containers that were delivered under preservation and chain of custody to Permian Basin Environmental Laboratory (PBEL) in Midland, Texas, and were analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX) by EPA SW-846 Method 8021B, total petroleum hydrocarbons (TPH) including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO) by Method 8015 and chloride by Method 300. Table 2 presents the confirmation soil sample analytical data summary. Figure 3 presents a Site drawing and soil sample locations. Appendix B presents the laboratory report.

BTEX was below the method reporting limit in the background and confirmation samples. TPH was below the method reporting limit in all samples except sample S-1 collected near the south end of the overspray area. TPH was reported at 244.08 milligrams per kilogram (mg/Kg) in sample S-1 and below the RRAL. Chloride was 948 mg/kg in sample S-1 and below 250 mg/Kg in the remaining samples. The TPH and chloride concentrations reported in sample S-1 suggest an existing impact since the overspray was natural gas liquid. The background chloride concentration was less than the method reporting limit.

4.0 CONCLUSION

Targa has delineated and remediated the release according to the RRAL.

5.0 RECOMMENDATION

The excavation was backfilled with clean soil with approval from OCD on January 26, 2017. Targa requests no further action for RP1-4532. Appendix C presents the initial and final C-141.

TABLES

Table 1
1RP-4532
Delineation Soil Sample Analytical Data Summary
Targa Midstream Services, LLC, South Justice Pipeline Release
Lea County, New Mexico

Sample	Collection Date	Location	Depth (Feet)	Benzene (mg/Kg)	BTEX (mg/Kg)	C6 - C10 (mg/Kg)	>C10 - C28 (mg/Kg)	>C28 - C35 (mg/Kg)	TPH (mg/Kg)	Chloride (mg/Kg)
OCD RRAL:									**1,000**	***250**
Main Excavation										
North	1/3/2017	North	3	--	--	<10.0	<10.0	--	<10.0	32
South	1/3/2017	South	3	--	--	<10.0	<10.0	--	<10.0	96.0
East	1/3/2017	East	3	--	--	<10.0	<10.0	--	<10.0	240
West	1/3/2017	West	3	--	--	<10.0	<10.0	--	<10.0	176
Bottom	1/3/2017 1/6/2017	Bottom Bottom	4 5	-- --	-- --	<10.0 --	23.3 --	-- --	23.2 --	304 48
Spray Area										
****S-1**	3/22/2017	South	2	<0.00111	<0.05107	<27.778	182.41	61.667	244.08	948
****S-2**	4/4/2017	West	2	<0.00109	<0.00761	<27.174	<27.174	<27.174	<27.174	169
****S-3**	3/22/2017	North	2	<0.00105	<0.01576	<26.316	<26.316	<26.316	<26.316	45.9
****S-4**	3/22/2017	East	2	<0.00109	<0.01634	<27.174	<27.174	<27.174	<27.174	25.9
****S-BG**	3/22/2017	Background	2	<0.0011	<0.0165	<27.473	<27.473	<27.473	<27.473	<0.10

Notes: Laboratory analysis performed by Cardinal Laboratories, Hobbs, New Mexico for TPH (GRO and DRO) by EPA SW-846 Method 8015M and chloride by Method SM4500Cl-b.

**: Denotes analysis performed by Permian Basin Environmental Lab, Midland, Texas, for TPH (GRO, DRO and ORO) by EPA SW-846 Method 8015M and chloride by EPA Method 300

Depth in feet below ground surface (bgs)

mg/Kg: milligrams per kilogram equivalent to parts per million (ppm)

FIGURES

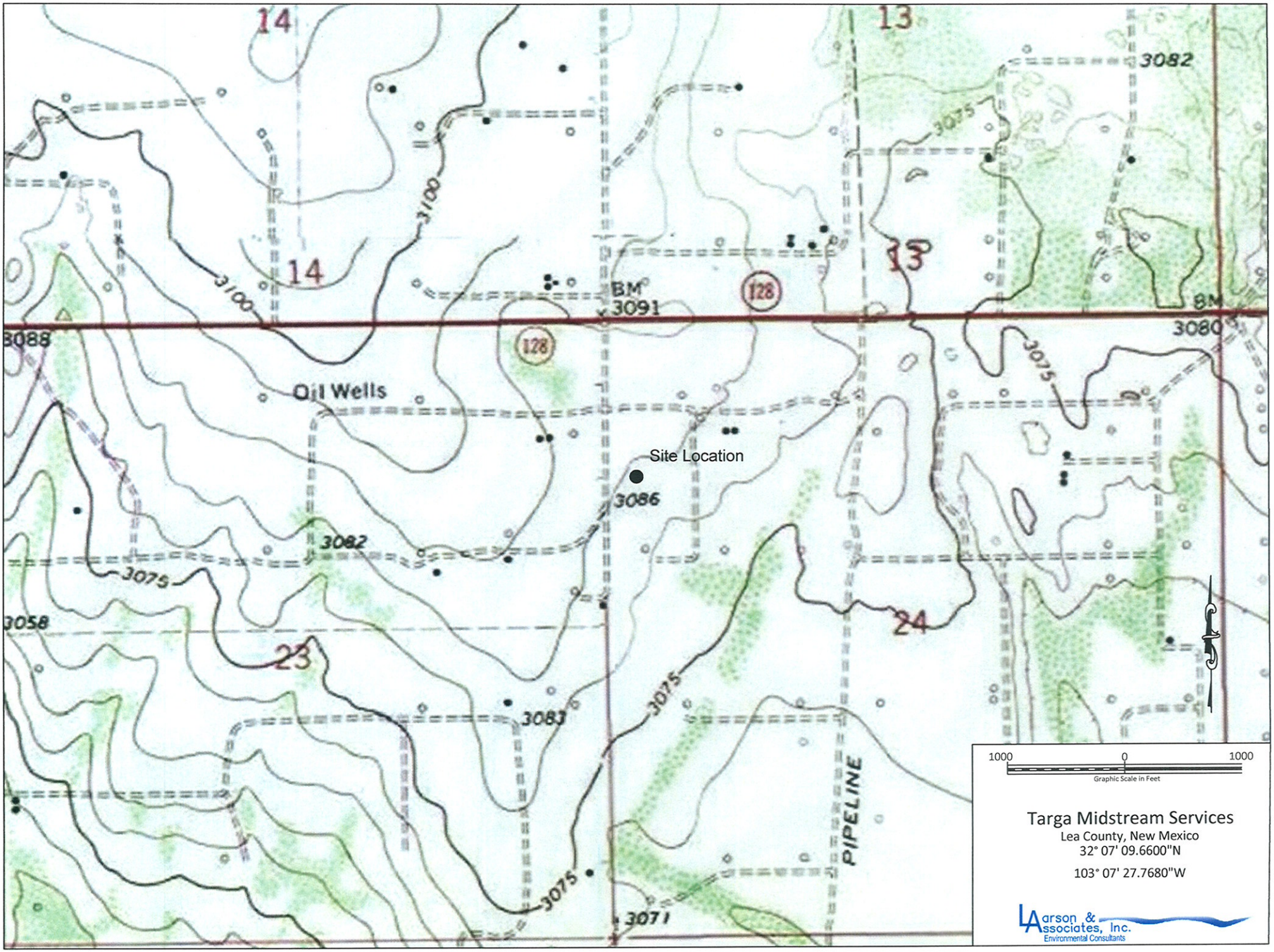

Figure 1 - Topographic Map

Figure 2 - Aerial Map

Figure 2a - Focused Aerial Map

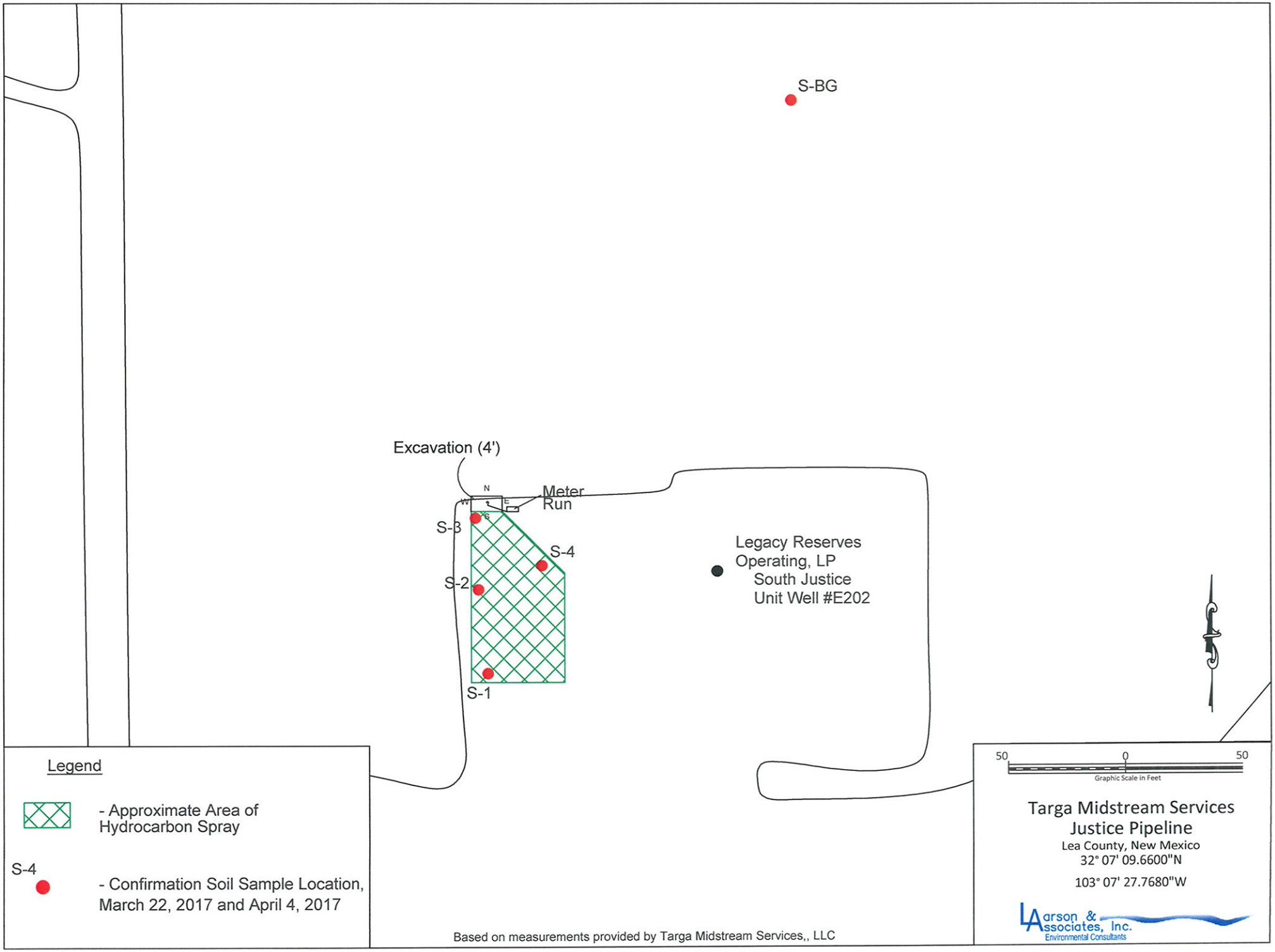

Figure 3 - Site Map Showing Sample Locations

APPENDIX A

OCD Correspondence

Mark Larson

From: Yu, Olivia, EMNRD [Olivia.Yu@state.nm.us]
Sent: Friday, March 17, 2017 1:24 PM
To: Mark Larson
Cc: 'Wrangham, Calvin W.'; 'Woodell, Rebecca F.'; Oberding, Tomas, EMNRD
Subject: RE: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

Dear Mr. Larson:

Due to the fact that the conditions of approval attached to the reviewed initial C-141 were not complied with and that depth to groundwater is at 68 ft., NMOCD requests that for confirmation

1. 4 soil samples, in the 4 cardinal directions, be collected in the overspray area at a depth of 2 ft;
2. a 6" depth background sample north of the release location on the pasture.

Laboratory analyses for Benzene, BTEX, TPH, and chlorides are required. Please confirm.

Thanks,
Olivia

From: Mark Larson [mailto:Mark@laenvironmental.com]
Sent: Friday, March 17, 2017 6:59 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: 'Wrangham, Calvin W.' <CalvinWrangham@targaresources.com>; 'Woodell, Rebecca F.' <RebeccaWoodell@targaresources.com>
Subject: RE: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

Olivia,
Thank you for meeting with me yesterday to discuss the delineation and remediation for 1RP-4532. The surface ownership is private (Legacy). Please find the final C-141 attached. Please contact Cal Wrangham with Targa Resources at (432) 688-0542 or CalvinWrangham@targaresources.com or me if you have questions.
Respectfully,

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 205
Midland, Texas 79701
Office – 432-687-0901
Cell – 432- 556-8656
Fax – 432-687-0456
mark@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

"Serving the Permian Basin Since 2000"

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Thursday, March 09, 2017 11:23 AM
To: Mark Larson
Subject: RE: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

Confirmed. 3pm MST, March 16.

From: Mark Larson [mailto:Mark@laenvironmental.com]
Sent: Thursday, March 9, 2017 10:11 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Subject: RE: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

3pm Mountain Time?

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Thursday, March 09, 2017 10:29 AM
To: Mark Larson
Subject: RE: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

Mr. Larson:

Are you available for a meeting at 3 pm, March 16, 2017?

Olivia

From: Mark Larson [mailto:Mark@laenvironmental.com]
Sent: Wednesday, March 8, 2017 11:17 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Subject: RE: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

Okay! How about next week, Thursday?

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Wednesday, March 08, 2017 12:16 PM

To: Mark Larson
Subject: RE: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

No. On my way to Artesia now.

From: Mark Larson [mailto:Mark@laenvironmental.com]
Sent: Wednesday, March 8, 2017 10:04 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Subject: RE: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

Would you be available this afternoon since I will be traveling on Friday?

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Wednesday, March 08, 2017 9:52 AM
To: Mark Larson
Cc: 'Wrangham, Calvin W.'; 'Woodell, Rebecca F.'
Subject: RE: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

Good morning Mr. Larson:

I am not available tomorrow. How about Friday, March 10 in the afternoon?

Olivia

From: Mark Larson [mailto:Mark@laenvironmental.com]
Sent: Wednesday, March 8, 2017 7:44 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: 'Wrangham, Calvin W.' <CalvinWrangham@targaresources.com>; 'Woodell, Rebecca F.' <RebeccaWoodell@targaresources.com>
Subject: Re: 1RP-4532, Targa Eunice South Justice 4" Down Leg Delineation Report

Hello Olivia,
I am following on our previous conversation and to inquire of your availability to meet on Thursday, March 9, 2017, at your office for the purpose of going over the delineation report for RP-4532. Please let me know of your availability and what time would be convenient for you.
Respectfully,

Mark J. Larson, P.G.
President/Sr. Project Manager
507 N. Marienfeld St., Suite 205
Midland, Texas 79701
(432) 687-0901 (O)
(432) 556-8656 (C)

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APPENDIX B

Laboratory Report

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: Targa South Justis Pipeline

Project Number: 17-0121-01

Location:

Lab Order Number: 7C22014

NELAP ACCREDITED TNI LABORATORY

NELAP/TCEQ # T104704156-16-6

Report Date: 04/05/17

Larson & Associates, Inc.	Project: Targa South Justis Pipeline	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0121-01	
Midland TX, 79710	Project Manager: Mark Larson	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S-1 2ft	7C22014-01	Soil	03/22/17 10:30	03-22-2017 15:12
S-3 2ft	7C22014-03	Soil	03/22/17 10:50	03-22-2017 15:12
S-4 2ft	7C22014-05	Soil	03/22/17 11:00	03-22-2017 15:12
S-BG 2ft	7C22014-06	Soil	03/22/17 11:15	03-22-2017 15:12
S-2 2 ft	7D04009-01	Soil	04/04/17 12:10	04-04-2017 14:57

S-1 2ft

7C22014-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00111	mg/kg dry	1	P7C2405	03/23/17	03/31/17	EPA 8021B	
Toluene	ND	0.0111	mg/kg dry	1	P7C2405	03/23/17	03/31/17	EPA 8021B	
Ethylbenzene	ND	0.00556	mg/kg dry	1	P7C2405	03/23/17	03/31/17	EPA 8021B	
Xylene (p/m)	ND	0.0222	mg/kg dry	1	P7C2405	03/23/17	03/31/17	EPA 8021B	
Xylene (o)	ND	0.0111	mg/kg dry	1	P7C2405	03/23/17	03/31/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*93.0 %*	*75-125*		*P7C2405*	*03/23/17*	*03/31/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.2 %*	*75-125*		*P7C2405*	*03/23/17*	*03/31/17*	*EPA 8021B*	
C6-C12	ND	27.778	mg/kg dry	1	P7C2805	03/23/17	03/25/17	TX 1005	
>C12-C28	**182.41**	27.778	mg/kg dry	1	P7C2805	03/23/17	03/25/17	TX 1005	
>C28-C35	**61.667**	27.778	mg/kg dry	1	P7C2805	03/23/17	03/25/17	TX 1005	
Surrogate: 1-Chlorooctane		*91.1 %*	*70-130*		*P7C2805*	*03/23/17*	*03/25/17*	*TX 1005*	
Surrogate: o-Terphenyl		*98.9 %*	*70-130*		*P7C2805*	*03/23/17*	*03/25/17*	*TX 1005*	
Total Hydrocarbon nC6-nC35	**244.08**	27.778	mg/kg dry	1	[CALC]	03/23/17	03/25/17	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**948**	1.11	mg/kg dry	1	P7C2403	03/24/17	03/27/17	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P7C2312	03/23/17	03/23/17	% calculation	

Larson & Associates, Inc.	Project: Targa South Justis Pipeline	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0121-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-3 2ft

7C22014-03 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00105	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Toluene	ND	0.00211	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Xylene (p/m)	ND	0.0105	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.5 %*	*75-125*		*P7C2405*	*03/23/17*	*03/23/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.0 %*	*75-125*		*P7C2405*	*03/23/17*	*03/23/17*	*EPA 8021B*	
C6-C12	ND	26.316	mg/kg dry	1	P7C2807	03/23/17	03/27/17	TX 1005	
>C12-C28	ND	26.316	mg/kg dry	1	P7C2807	03/23/17	03/27/17	TX 1005	
>C28-C35	ND	26.316	mg/kg dry	1	P7C2807	03/23/17	03/27/17	TX 1005	
Surrogate: 1-Chlorooctane		*76.9 %*	*70-130*		*P7C2807*	*03/23/17*	*03/27/17*	*TX 1005*	
Surrogate: o-Terphenyl		*96.8 %*	*70-130*		*P7C2807*	*03/23/17*	*03/27/17*	*TX 1005*	
Total Hydrocarbon nC6-nC35	ND	26.316	mg/kg dry	1	[CALC]	03/23/17	03/27/17	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**45.9**	1.05	mg/kg dry	1	P7C2403	03/24/17	03/27/17	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P7C2312	03/23/17	03/23/17	% calculation	

Larson & Associates, Inc.	Project: Targa South Justis Pipeline	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0121-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-4 2ft

7C22014-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Xylene (p/m)	ND	0.0109	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*96.4 %*	*75-125*		*P7C2405*	*03/23/17*	*03/23/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*75-125*		*P7C2405*	*03/23/17*	*03/23/17*	*EPA 8021B*	
C6-C12	ND	27.174	mg/kg dry	1	P7C2807	03/23/17	03/27/17	TX 1005	
>C12-C28	ND	27.174	mg/kg dry	1	P7C2807	03/23/17	03/27/17	TX 1005	
>C28-C35	ND	27.174	mg/kg dry	1	P7C2807	03/23/17	03/27/17	TX 1005	
Surrogate: 1-Chlorooctane		*81.5 %*	*70-130*		*P7C2807*	*03/23/17*	*03/27/17*	*TX 1005*	
Surrogate: o-Terphenyl		*97.8 %*	*70-130*		*P7C2807*	*03/23/17*	*03/27/17*	*TX 1005*	
Total Hydrocarbon nC6-nC35	ND	27.174	mg/kg dry	1	[CALC]	03/23/17	03/27/17	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**25.9**	1.09	mg/kg dry	1	P7C2403	03/24/17	03/27/17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P7C2312	03/23/17	03/23/17	% calculation	

Larson & Associates, Inc.	Project: Targa South Justis Pipeline	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0121-01	
Midland TX, 79710	Project Manager: Mark Larson	

S-BG 2ft

7C22014-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00110	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Toluene	ND	0.00220	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Xylene (p/m)	ND	0.0110	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P7C2405	03/23/17	03/23/17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*95.0 %*	*75-125*		*P7C2405*	*03/23/17*	*03/23/17*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*99.0 %*	*75-125*		*P7C2405*	*03/23/17*	*03/23/17*	*EPA 8021B*	
C6-C12	ND	27.473	mg/kg dry	1	P7C2810	03/27/17	03/27/17	TX 1005	
>C12-C28	ND	27.473	mg/kg dry	1	P7C2810	03/27/17	03/27/17	TX 1005	
>C28-C35	ND	27.473	mg/kg dry	1	P7C2810	03/27/17	03/27/17	TX 1005	
Surrogate: 1-Chlorooctane		*89.8 %*	*70-130*		*P7C2810*	*03/27/17*	*03/27/17*	*TX 1005*	
Surrogate: o-Terphenyl		*92.1 %*	*70-130*		*P7C2810*	*03/27/17*	*03/27/17*	*TX 1005*	
Total Hydrocarbon nC6-nC35	ND	27.473	mg/kg dry	1	[CALC]	03/27/17	03/27/17	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.10	mg/kg dry	1	P7C2403	03/24/17	03/27/17	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P7C2312	03/23/17	03/23/17	% calculation	

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S-2 2 ft

7D04009-01 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00109	mg/kg dry	1	P7D0502	04/04/17	04/04/17	EPA 8021B	
Toluene	ND	0.00217	mg/kg dry	1	P7D0502	04/04/17	04/04/17	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P7D0502	04/04/17	04/04/17	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P7D0502	04/04/17	04/04/17	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P7D0502	04/04/17	04/04/17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*96.1 %*	*75-125*		*P7D0502*	*04/04/17*	*04/04/17*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*104 %*	*75-125*		*P7D0502*	*04/04/17*	*04/04/17*	*EPA 8021B*	
C6-C12	ND	27.174	mg/kg dry	1	P7D0505	04/04/17	04/04/17	TX 1005	
>C12-C28	ND	27.174	mg/kg dry	1	P7D0505	04/04/17	04/04/17	TX 1005	
>C28-C35	ND	27.174	mg/kg dry	1	P7D0505	04/04/17	04/04/17	TX 1005	
Surrogate: 1-Chlorooctane		*108 %*	*70-130*		*P7D0505*	*04/04/17*	*04/04/17*	*TX 1005*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P7D0505*	*04/04/17*	*04/04/17*	*TX 1005*	
Total Hydrocarbon nC6-nC35	ND	27.174	mg/kg dry	1	[CALC]	04/04/17	04/04/17	[CALC]	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**169**	1.09	mg/kg dry	1	P7D0506	04/05/17	04/05/17	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P7D0501	04/05/17	04/05/17	% calculation	

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7C2405 - General Preparation (GC)										
Blank (P7C2405-BLK1)				Prepared & Analyzed: 03/23/17						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	0.00484	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.0575*		"	*0.0600*		*95.9*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0569*		"	*0.0600*		*94.8*	*75-125*			
LCS (P7C2405-BS1)				Prepared & Analyzed: 03/23/17						
Benzene	0.0802	0.00100	mg/kg wet	0.100		80.2	70-130			
Toluene	0.0802	0.00200	"	0.100		80.2	70-130			
Ethylbenzene	0.0878	0.00100	"	0.100		87.8	70-130			
Xylene (p/m)	0.152	0.00200	"	0.200		75.9	70-130			
Xylene (o)	0.0811	0.00100	"	0.100		81.1	70-130			
Surrogate: 1,4-Difluorobenzene	*0.0613*		"	*0.0600*		*102*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0599*		"	*0.0600*		*99.9*	*75-125*			
LCS Dup (P7C2405-BSD1)				Prepared & Analyzed: 03/23/17						
Benzene	0.0801	0.00100	mg/kg wet	0.100		80.1	70-130	0.112	20	
Toluene	0.0801	0.00200	"	0.100		80.1	70-130	0.0749	20	
Ethylbenzene	0.0908	0.00100	"	0.100		90.8	70-130	3.33	20	
Xylene (p/m)	0.151	0.00200	"	0.200		75.4	70-130	0.654	20	
Xylene (o)	0.0828	0.00100	"	0.100		82.8	70-130	2.01	20	
Surrogate: 1,4-Difluorobenzene	*0.0615*		"	*0.0600*		*103*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0629*		"	*0.0600*		*105*	*75-125*			
Matrix Spike (P7C2405-MS1)	**Source: 7C22014-06**			Prepared: 03/23/17 Analyzed: 03/24/17						
Benzene	0.124	0.00110	mg/kg dry	0.110	ND	113	80-120			
Toluene	0.122	0.00220	"	0.110	ND	111	80-120			
Ethylbenzene	0.129	0.00110	"	0.110	ND	118	80-120			
Xylene (p/m)	0.218	0.00220	"	0.220	ND	99.1	80-120			
Xylene (o)	0.116	0.00110	"	0.110	ND	105	80-120			
Surrogate: 1,4-Difluorobenzene	*0.00*		"	*0.0659*			*75-125*			*QM-07*
Surrogate: 4-Bromofluorobenzene	*0.0593*		"	*0.0659*		*89.9*	*75-125*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7C2405 - General Preparation (GC)										
Matrix Spike Dup (P7C2405-MSD1)	**Source: 7C22014-06**			Prepared: 03/23/17 Analyzed: 03/24/17						
Benzene	0.0878	0.00110	mg/kg dry	0.110	ND	79.9	80-120	34.1	20	QM-07, R3
Toluene	0.0860	0.00220	"	0.110	ND	78.3	80-120	34.9	20	QM-07, R3
Ethylbenzene	0.0946	0.00110	"	0.110	ND	86.1	80-120	30.8	20	R3
Xylene (p/m)	0.165	0.00220	"	0.220	ND	75.1	80-120	27.5	20	QM-07, R3
Xylene (o)	0.0932	0.00110	"	0.110	ND	84.8	80-120	21.7	20	R3
Surrogate: 4-Bromofluorobenzene	*0.0691*		"	*0.0659*		*105*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0637*		"	*0.0659*		*96.6*	*75-125*			
Batch P7C2805 - TX 1005										
Blank (P7C2805-BLK1)				Prepared: 03/23/17 Analyzed: 03/25/17						
C6-C12	ND	25.000	mg/kg wet							
>C12-C28	ND	25.000	"							
>C28-C35	ND	25.000	"							
Surrogate: 1-Chlorooctane	*73.4*		"	*100*		*73.4*	*70-130*			
Surrogate: o-Terphenyl	*37.6*		"	*50.0*		*75.3*	*70-130*			
LCS (P7C2805-BS1)				Prepared: 03/23/17 Analyzed: 03/25/17						
C6-C12	1210	25.000	mg/kg wet	1000		121	75-125			
>C12-C28	1030	25.000	"	1000		103	75-125			
Surrogate: 1-Chlorooctane	*78.6*		"	*100*		*78.6*	*70-130*			
Surrogate: o-Terphenyl	*33.7*		"	*50.0*		*67.3*	*70-130*			*S-GC*
LCS Dup (P7C2805-BSD1)				Prepared: 03/23/17 Analyzed: 03/25/17						
C6-C12	1170	25.000	mg/kg wet	1000		117	75-125	3.21	20	
>C12-C28	1100	25.000	"	1000		110	75-125	6.81	20	
Surrogate: 1-Chlorooctane	*88.5*		"	*100*		*88.5*	*70-130*			
Surrogate: o-Terphenyl	*36.5*		"	*50.0*		*73.0*	*70-130*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7C2807 - TX 1005										
Blank (P7C2807-BLK1)				Prepared: 03/23/17 Analyzed: 03/27/17						
C6-C12	ND	25.000	mg/kg wet							
>C12-C28	ND	25.000	"							
>C28-C35	ND	25.000	"							
Surrogate: 1-Chlorooctane	*71.7*		"	*100*		*71.7*	*70-130*			
Surrogate: o-Terphenyl	*40.4*		"	*50.0*		*80.9*	*70-130*			
LCS (P7C2807-BS1)				Prepared: 03/23/17 Analyzed: 03/27/17						
C6-C12	1080	25.000	mg/kg wet	1000		108	75-125			
>C12-C28	977	25.000	"	1000		97.7	75-125			
Surrogate: 1-Chlorooctane	*78.4*		"	*100*		*78.4*	*70-130*			
Surrogate: o-Terphenyl	*32.9*		"	*50.0*		*65.9*	*70-130*			*S-GC*
LCS Dup (P7C2807-BSD1)				Prepared: 03/23/17 Analyzed: 03/27/17						
C6-C12	1170	25.000	mg/kg wet	1000		117	75-125	7.84	20	
>C12-C28	1040	25.000	"	1000		104	75-125	6.15	20	
Surrogate: 1-Chlorooctane	*78.6*		"	*100*		*78.6*	*70-130*			
Surrogate: o-Terphenyl	*34.8*		"	*50.0*		*69.6*	*70-130*			*S-GC*
Matrix Spike (P7C2807-MS1)	**Source: 7C15005-61**			Prepared: 03/23/17 Analyzed: 03/27/17						
C6-C12	1560	29.070	mg/kg dry	1160	27.6	132	75-125			QM-05
>C12-C28	1390	29.070	"	1160	ND	119	75-125			
Surrogate: 1-Chlorooctane	*109*		"	*116*		*94.0*	*70-130*			
Surrogate: o-Terphenyl	*51.2*		"	*58.1*		*88.0*	*70-130*			
Matrix Spike Dup (P7C2807-MSD1)	**Source: 7C15005-61**			Prepared: 03/23/17 Analyzed: 03/27/17						
C6-C12	1590	29.070	mg/kg dry	1160	27.6	134	75-125	1.85	20	QM-05
>C12-C28	1380	29.070	"	1160	ND	119	75-125	0.0622	20	
Surrogate: 1-Chlorooctane	*111*		"	*116*		*95.5*	*70-130*			
Surrogate: o-Terphenyl	*52.2*		"	*58.1*		*89.8*	*70-130*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7C2810 - TX 1005										
Blank (P7C2810-BLK1)				Prepared & Analyzed: 03/27/17						
C6-C12	ND	25.000	mg/kg wet							
>C12-C28	ND	25.000	"							
>C28-C35	ND	25.000	"							
Surrogate: 1-Chlorooctane	*69.5*		"	*100*		*69.5*	*70-130*			*S-GC*
Surrogate: o-Terphenyl	*37.1*		"	*50.0*		*74.2*	*70-130*			
LCS (P7C2810-BS1)				Prepared & Analyzed: 03/27/17						
C6-C12	864	25.000	mg/kg wet	1000		86.4	75-125			
>C12-C28	811	25.000	"	1000		81.1	75-125			
Surrogate: 1-Chlorooctane	*78.5*		"	*100*		*78.5*	*70-130*			
Surrogate: o-Terphenyl	*38.4*		"	*50.0*		*76.7*	*70-130*			
LCS Dup (P7C2810-BSD1)				Prepared & Analyzed: 03/27/17						
C6-C12	894	25.000	mg/kg wet	1000		89.4	75-125	3.40	20	
>C12-C28	802	25.000	"	1000		80.2	75-125	1.21	20	
Surrogate: 1-Chlorooctane	*77.0*		"	*100*		*77.0*	*70-130*			
Surrogate: o-Terphenyl	*37.8*		"	*50.0*		*75.6*	*70-130*			
Matrix Spike (P7C2810-MS1)		**Source: 7C23002-14**		Prepared: 03/27/17 Analyzed: 03/28/17						
C6-C12	858	25.510	mg/kg dry	1020	30.2	81.1	75-125			
>C12-C28	890	25.510	"	1020	ND	87.2	75-125			
Surrogate: 1-Chlorooctane	*95.4*		"	*102*		*93.5*	*70-130*			
Surrogate: o-Terphenyl	*45.7*		"	*51.0*		*89.5*	*70-130*			
Matrix Spike Dup (P7C2810-MSD1)		**Source: 7C23002-14**		Prepared: 03/27/17 Analyzed: 03/28/17						
C6-C12	895	25.510	mg/kg dry	1020	30.2	84.8	75-125	4.42	20	
>C12-C28	921	25.510	"	1020	ND	90.2	75-125	3.42	20	
Surrogate: 1-Chlorooctane	*99.4*		"	*102*		*97.4*	*70-130*			
Surrogate: o-Terphenyl	*53.7*		"	*51.0*		*105*	*70-130*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7D0502 - General Preparation (GC)										
Blank (P7D0502-BLK1)				Prepared & Analyzed: 04/04/17						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.0488*		"	*0.0600*		*81.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0549*		"	*0.0600*		*91.4*	*75-125*			
LCS (P7D0502-BS1)				Prepared & Analyzed: 04/04/17						
Benzene	0.107	0.00100	mg/kg wet	0.100		107	70-130			
Toluene	0.0867	0.00200	"	0.100		86.7	70-130			
Ethylbenzene	0.0854	0.00100	"	0.100		85.4	70-130			
Xylene (p/m)	0.177	0.00200	"	0.200		88.6	70-130			
Xylene (o)	0.0813	0.00100	"	0.100		81.3	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0559*		"	*0.0600*		*93.2*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0605*		"	*0.0600*		*101*	*75-125*			
LCS Dup (P7D0502-BSD1)				Prepared & Analyzed: 04/04/17						
Benzene	0.105	0.00100	mg/kg wet	0.100		105	70-130	1.40	20	
Toluene	0.0864	0.00200	"	0.100		86.4	70-130	0.347	20	
Ethylbenzene	0.0856	0.00100	"	0.100		85.6	70-130	0.257	20	
Xylene (p/m)	0.177	0.00200	"	0.200		88.5	70-130	0.147	20	
Xylene (o)	0.0851	0.00100	"	0.100		85.1	70-130	4.57	20	
Surrogate: 1,4-Difluorobenzene	*0.0598*		"	*0.0600*		*99.6*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0573*		"	*0.0600*		*95.6*	*75-125*			
Matrix Spike (P7D0502-MS1)	**Source: 7D04009-01**			Prepared: 04/04/17 Analyzed: 04/05/17						
Benzene	0.0668	0.00109	mg/kg dry	0.109	ND	61.4	80-120			QM-07
Toluene	0.0597	0.00217	"	0.109	ND	54.9	80-120			QM-07
Ethylbenzene	0.0540	0.00109	"	0.109	ND	49.6	80-120			QM-07
Xylene (p/m)	0.109	0.00217	"	0.217	ND	50.3	80-120			QM-07
Xylene (o)	0.0506	0.00109	"	0.109	ND	46.5	80-120			QM-07
Surrogate: 4-Bromofluorobenzene	*0.0591*		"	*0.0652*		*90.6*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0625*		"	*0.0652*		*95.8*	*75-125*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7D0502 - General Preparation (GC)										
Matrix Spike Dup (P7D0502-MSD1)	**Source: 7D04009-01**			Prepared: 04/04/17 Analyzed: 04/05/17						
Benzene	0.121	0.00109	mg/kg dry	0.109	ND	112	80-120	58.0	20	QM-07
Toluene	0.110	0.00217	"	0.109	ND	101	80-120	59.0	20	QM-07
Ethylbenzene	0.0960	0.00109	"	0.109	ND	88.3	80-120	56.0	20	QM-07
Xylene (p/m)	0.195	0.00217	"	0.217	ND	89.9	80-120	56.5	20	QM-07
Xylene (o)	0.0916	0.00109	"	0.109	ND	84.2	80-120	57.6	20	QM-07
Surrogate: 1,4-Difluorobenzene	*0.0635*		"	*0.0652*		*97.3*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0568*		"	*0.0652*		*87.1*	*75-125*			
Batch P7D0505 - TX 1005										
Blank (P7D0505-BLK1)				Prepared & Analyzed: 04/04/17						
C6-C12	ND	25.000	mg/kg wet							
>C12-C28	ND	25.000	"							
>C28-C35	ND	25.000	"							
Surrogate: 1-Chlorooctane	*105*		"	*100*		*105*	*70-130*			
Surrogate: o-Terphenyl	*51.0*		"	*50.0*		*102*	*70-130*			
LCS (P7D0505-BS1)				Prepared & Analyzed: 04/04/17						
C6-C12	970	25.000	mg/kg wet	1000		97.0	75-125			
>C12-C28	871	25.000	"	1000		87.1	75-125			
Surrogate: 1-Chlorooctane	*104*		"	*100*		*104*	*70-130*			
Surrogate: o-Terphenyl	*47.0*		"	*50.0*		*94.0*	*70-130*			
LCS Dup (P7D0505-BSD1)				Prepared & Analyzed: 04/04/17						
C6-C12	971	25.000	mg/kg wet	1000		97.1	75-125	0.0691	20	
>C12-C28	903	25.000	"	1000		90.3	75-125	3.62	20	
Surrogate: 1-Chlorooctane	*106*		"	*100*		*106*	*70-130*			
Surrogate: o-Terphenyl	*47.0*		"	*50.0*		*94.0*	*70-130*			

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Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7D0505 - TX 1005										
Matrix Spike (P7D0505-MS1)	**Source: 7D04009-01**			Prepared: 04/04/17 Analyzed: 04/05/17						
C6-C12	956	27.174	mg/kg dry	1090	16.7	86.5	75-125			
>C12-C28	876	27.174	"	1090	17.4	79.0	75-125			
Surrogate: 1-Chlorooctane	*106*		"	*109*		*97.8*	*70-130*			
Surrogate: o-Terphenyl	*49.1*		"	*54.3*		*90.3*	*70-130*			
Matrix Spike Dup (P7D0505-MSD1)	**Source: 7D04009-01**			Prepared: 04/04/17 Analyzed: 04/05/17						
C6-C12	987	27.174	mg/kg dry	1090	16.7	89.3	75-125	3.21	20	
>C12-C28	912	27.174	"	1090	17.4	82.3	75-125	4.11	20	
Surrogate: 1-Chlorooctane	*110*		"	*109*		*101*	*70-130*			
Surrogate: o-Terphenyl	*50.6*		"	*54.3*		*93.1*	*70-130*			

Larson & Associates, Inc.
P.O. Box 50685
Midland TX, 79710

Project: Targa South Justis Pipeline
Project Number: 17-0121-01
Project Manager: Mark Larson

Fax: (432) 687-0456

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7C2312 - * DEFAULT PREP *** **										
Blank (P7C2312-BLK1)				Prepared & Analyzed: 03/23/17						
% Moisture	ND	0.1	%							
Duplicate (P7C2312-DUP1)	Source: 7C23002-17			Prepared & Analyzed: 03/23/17						
% Moisture	2.0	0.1	%		2.0			0.00	20	
Duplicate (P7C2312-DUP2)	Source: 7C23006-03			Prepared & Analyzed: 03/23/17						
% Moisture	9.0	0.1	%		8.0			11.8	20	
Batch P7C2403 - * DEFAULT PREP *** **										
Blank (P7C2403-BLK1)				Prepared: 03/24/17 Analyzed: 03/27/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7C2403-BS1)				Prepared: 03/24/17 Analyzed: 03/27/17						
Chloride	423	1.00	mg/kg wet	400		106	80-120			
LCS Dup (P7C2403-BSD1)				Prepared: 03/24/17 Analyzed: 03/27/17						
Chloride	413	1.00	mg/kg wet	400		103	80-120	2.40	20	
Duplicate (P7C2403-DUP1)	Source: 7C22014-04			Prepared: 03/24/17 Analyzed: 03/27/17						
Chloride	3650	10.9	mg/kg dry		3670			0.478	20	
Duplicate (P7C2403-DUP2)	Source: 7C23002-10			Prepared: 03/24/17 Analyzed: 03/27/17						
Chloride	7760	25.5	mg/kg dry		8190			5.28	20	
Matrix Spike (P7C2403-MS1)	Source: 7C22014-04			Prepared: 03/24/17 Analyzed: 03/27/17						
Chloride	4630	10.9	mg/kg dry	1090	3670	87.8	80-120			

Larson & Associates, Inc.	Project: Targa South Justis Pipeline	Fax: (432) 687-0456
P.O. Box 50685	Project Number: 17-0121-01	
Midland TX, 79710	Project Manager: Mark Larson	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P7D0501 - * DEFAULT PREP *** **										
Blank (P7D0501-BLK1)				Prepared & Analyzed: 04/05/17						
% Moisture	ND	0.1	%							
Duplicate (P7D0501-DUP1)	Source: 7D04009-01			Prepared & Analyzed: 04/05/17						
% Moisture	9.0	0.1	%		8.0			11.8	20	
Batch P7D0506 - * DEFAULT PREP *** **										
Blank (P7D0506-BLK1)				Prepared & Analyzed: 04/05/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7D0506-BS1)				Prepared & Analyzed: 04/05/17						
Chloride	432	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P7D0506-BSD1)				Prepared & Analyzed: 04/05/17						
Chloride	431	1.00	mg/kg wet	400		108	80-120	0.382	20	
Duplicate (P7D0506-DUP1)	Source: 7D03005-01			Prepared & Analyzed: 04/05/17						
Chloride	ND	1.09	mg/kg dry		ND				20	
Matrix Spike (P7D0506-MS1)	Source: 7D03005-01			Prepared & Analyzed: 04/05/17						
Chloride	ND	1.09	mg/kg dry	1090	ND		80-120			

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: _____ Date: 4/5/2017

Brent Barron, Laboratory Director/Technical Director

CHAIN-OF-CUSTOD

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 3-22-17 PAGE 1 OF 1

PO #: _____ LAB WORK ORDER #: 1C22014

PROJECT LOCATION OR NAME: Targa South Texas Pipeline

LAI PROJECT #: 17-0121-01 COLLECTOR: Travis Williams

Data Reported to:

TRRP report? ☐ Yes ☑ No

TIME ZONE: Time zone/State: NM

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☑ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☑ | DIESEL - MOD 8015 ☑ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☑ ANIONS ☐ ALKALINITY ☐ | 300

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	BTEX	MTBE	GASOLINE MOD 8015	DIESEL - MOD 8015	300	FIELD NOTES
S-1 2ft		3/22/17	10:30	S	1				✓		✓		✓	✓	✓	
S-2 2ft			10:45													
S-3 2ft			10:50													
S-4 2ft			10:55													
S-5 2ft			11:06													
S-BG 2ft			11:15													

TOTAL

RELINQUISHED BY:(Signature) DATE/TIME 3-22-17 2:32 RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY:(Signature) DATE/TIME 3/22/17 1617 RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☑
1 DAY ☐
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 1.3 8 THERM #: _____
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

CHAIN-OF-CUSTOD

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 200
Midland, TX 79701
432-687-0901

DATE: 4-4-17 PAGE 1 OF 1

PO #: _____ LAB WORK ORDER #: 17D04009

PROJECT LOCATION OR NAME: Toga South Justis Pipeline

LAI PROJECT #: 17-0121-01 COLLECTOR: Travis Wilson

Data Reported to:

TRRP report? ☐ Yes ☑ No

TIME ZONE: Time zone/State: NM

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR OT=OTHER

Field Sample I.D.	Lab #	Date	Time	Matrix	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☑ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☑	DIESEL - MOD 8015 ☑ ORO ☑	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ D.W. 200.8 ☐ OTHER LIST ☐	LEAD - TOTAL ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☑ ANIONS ☐ ALKALINITY ☐	SO4	FIELD NOTES
S-2 2ft		4-4-17	12:10	S	1				✓		✓		✓	✓												✓			
TOTAL																													

RELINQUISHED BY: (Signature) DATE/TIME 4/4/17 2:55 RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) DATE/TIME 4-4-17 15:00 RECEIVED BY: (Signature)

TURN AROUND TIME
NORMAL ☐
1 DAY ☑ Rush
2 DAY ☐
OTHER ☐

LABORATORY USE ONLY:
RECEIVING TEMP: 7.0 THERM #: _____
CUSTODY SEALS - ☐ BROKEN ☑ INTACT ☐ NOT USED
☐ CARRIER BILL # _____
☑ HAND DELIVERED

APPENDIX C

Initial and Final C-141

NM OIL CONSERVATION
ARTESIA DISTRICT
DEC 20 2016
RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

fAB1636434584 nAB1636435554

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Targa Midstream Services 24650	Contact: Bill Little
Address: PO Box 1909 Eunice, NM 88231	Telephone No.: 575.631.7099
Facility Name Eunice Gathering System	Facility Type pipeline - low pressure

Surface Owner Legacy Grobs Field	Mineral Owner	API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	24	25S	37E					Lea

Latitude 32.11935 Longitude 103.12438

NATURE OF RELEASE

Type of Release Liquid	Volume of Release 10 BBLS of liquid	Volume Recovered
Source of Release leak on a 4" steel down leg	Date and Hour of Occurrence 12/18/16 8:00 AM	Date and Hour of Discovery 12/18/16 10:00 AM Targa notified
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
4" steel down leg developed a leak due to internal corrosion forcing liquid to surface. Line was shut in isolating/stopping leak.

Describe Area Affected and Cleanup Action Taken.*
The area affected is in the process of being excavated, sampled, and contaminated soil removed to an approved OCD Landfill. New soil will be hauled to backfill. The down leg is being repaired.
will take samples before closure

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION
Printed Name: Bill Little	Approved by Environmental Specialist:
Title: Area Manager	Approval Date: 12/29/16 Expiration Date: N/A
E-mail Address: blittle@targaresources.com	Conditions of Approval: See attached Attached ☒
Date: 12-19-16 Phone: 575.631.7099	

* Attach Additional Sheets If Necessary

IRP-4532

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **12/20/16** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number IRP-4532 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 2/1/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Lynch, Kristen, EMNRD
Sent: Tuesday, December 20, 2016 2:33 PM
To: Patterson, Heather, EMNRD; Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD
Subject: Fw: Targa C 141 Legacy event
Attachments: Eunice C-141121816 Legacy.pdf

From: Woodell, Rebecca F. <RebeccaWoodell@targaresources.com>
Sent: Tuesday, December 20, 2016 10:27 AM
To: Lynch, Kristen, EMNRD
Cc: Klein, Cindy S.
Subject: FW: Targa C 141 Legacy event

Please find attached an initial C 141 report for Targa Resources. Forwarding per Jamie Keyes. If you have any questions please call 575.631.7085. Thank You!!

From: Woodell, Rebecca F.
Sent: Tuesday, December 20, 2016 10:04 AM
To: 'Jamie.Keyes@state.nm.us'; 'marka.whitaker@state.nm.us'
Cc: 'Klein, Cindy D. (CynthiaKlein@targaresources.com)'; Little, Bill E.
Subject: Targa C 141 Legacy event
Importance: High

Please find attached the initial C 141 for the 12/18/16 Targa Resources leak, verbal notification Monday, 12/19/16 to Mark Whitaker's desk by Rebecca Woodell. The final C 141 will be submitted upon completion of the cleanup of site.

Thank You,

Rebecca Woodell
Targa Resources
ES&H Specialist Eunice Area
PO Box 1909
Eunice, NM 88231
575.394.2534.239 Office 575.631.7085 Cell
rwoodell@targaresources.com

Mark Larson

Subject: FW: [EXTERNAL] RE: Targa Resources South Justis Final C141
Attachments: OCD doc Legacy event.pdf

From: Lynch, Kristen, EMNRD [mailto:Kristen.Lynch@state.nm.us]
Sent: Thursday, January 26, 2017 2:30 PM
To: Woodell, Rebecca F.
Cc: Oberding, Tomas, EMNRD; Yu, Olivia, EMNRD; Brown, Maxey G, EMNRD
Subject: [EXTERNAL] RE: Targa Resources South Justis Final C141

Good Afternoon,

Based on documents provided permission to back fill is approved.

Thank You,

Kristen Houston

Sent from Samsung Mobile

-------- Original message --------
From: "Woodell, Rebecca F."
Date:01/10/2017 9:39 AM (GMT-07:00)
To: "Lynch, Kristen, EMNRD"
Cc: "Klein, Cindy S." ,"Holland, Roger D."
Subject: Targa Resources South Justis Final C141

Kristen, please find attached the Final C141 for the Targa South Justis leak which occurred 12/18/16. Also attached are the lab analysis of the site, meeting OCD standards. Upon OCD approval, the site will be backfilled. Should you have any questions, please call.

Thank You,

Rebecca Woodell
Targa Resources
ES&H Specialist Eunice Area
PO Box 1909
Eunice, NM 88231
575.394.2534.239 Office 575.631.7085 Cell
rwoodell@targaresources.com

Attention: This message was sent from someone outside of Targa Resources. Always use caution when opening unsolicited attachments or links, even if they appear to have been sent by someone you know.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Targa Midstream Services, LLC	Contact: Bill Little
Address: P.O. Box 1909, Eunice, NM 88231	Telephone No.: (575) 631-7099
Facility Name: Eunice South Justice 4" Down Leg	Facility Type: Natural Gas Pipeline

Surface Owner: Legacy	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	24	25S	37E	1,300	South	250	West	Lea

Latitude: 32.11935° **Longitude: 1103.12438°**

NATURE OF RELEASE

Type of Release: Natural Gas Liquids	Volume of Release: 10bbl liquid	Volume Recovered: None
Source of Release: Leak on 4" steel down leg	Date and Hour of Occurrence: 12/18/2016	Date and Hour of Discovery: 12/18/2016 10:AM Targa notified
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

APPROVED
By Olivia Yu at 10:48 am, May 03, 2017

Describe Cause of Problem and Remedial Action Taken.* A 4" steel down leg developed leak due to internal corrosion forcing liquid to surface. Line was shut in isolating/stopping leak.

Describe Area Affected and Cleanup Action Taken.* The down leg was replaced. Soil from the affected area was excavated and hauled to an OCD approved landfill. Confirmation samples collected from the excavated area showed TPH below RRAL and chloride below 250 mg/Kg. Confirmation soil samples were collected at approximately 2 feet below ground at 4 locations from an overspray area located south of the release, as directed by OCD, and were below the RRAL for BTEX and TPH. Chloride in sample S-1 located near the south end of the overspray area reported chloride at 948 mg/Kg and not believed to be from the natural gas liquids release since the overspray occurred on historic oil and gas well location. Excavation was backfilled with clean material (caliche) per approval from OCD.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Bill Little	OIL CONSERVATION DIVISION
Printed Name: Bill Little	Approved by District Supervisor:
Title: Area Manager	Approval Date: 5/3/2017 Expiration Date: xx/xx/xxxx
E-mail Address: BLitle@targaresources.com	Conditions of Approval: Attached ☐
Date: 04-11-2017 Phone: (575) 631-7099	

* Attach Additional Sheets If Necessary