

Incident ID	
District RP	1RP-5223
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Amber Groves Title: Remediation Coordinator
Signature: [Handwritten Signature] Date: 2/17/2020
email: agroves@pca.nm.gov Telephone: 505-200-5517

OCD Only

Received by: _____ Date: _____

Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____



February 12, 2020

New Mexico Energy, Minerals and Natural Resources Department
 Oil Conservation Division, District 1
 1625 French Drive
 Hobbs, NM 88240

Re: Remediation Summary and Deferral Request
COG: Stratojet 31 State Com #006H
API No. N/A
GPS: Latitude 32.523582 Longitude -103.494174
UL "O", Sec. 31, T20S, R35E
Lea County, NM
NMOCD Ref. No. 1RP-5223

TRC Environmental Corporation (TRC), on behalf of Plains Pipeline, LP, has prepared this Remediation Summary and Deferral Request for the Release Site known as the **Stratojet 31 State Com #006H**. Details of the release are summarized below:

RELEASE DETAILS			
Type of Release:	Crude Oil	Volume of Release:	20 bbls
		Volume Recovered:	15 bbls
Source of Release:	LACT Unit	Date of Release: 9/25/18	Date of Discovery: 9/25/18
Was Immediate Notice Given?	Yes	If, YES, to Whom?	NMOCD District I
Was a Watercourse Reached?	No	If YES, Volume Impacting the Watercourse:	NA
Surface Owner:	Private	Mineral Owner:	State
Describe Cause of Problem and Remedial Action Taken:			
A third party left a valve open.			

Topographical and Aerial Maps are provided as Attachments #1 and #2. General Site Photographs are provided as Attachment #8. A Copy of the Initial Release Notification and Corrective Action (NMOCD Form C-141) is provided as Attachment #9.

REGULATORY FRAMEWORK

Surface impacts from unauthorized releases of crude oil, gases, produced water, condensate or other oil field waste which occur during normal oilfield operations are generally regulated by the New Mexico Oil Conservation Division (NMOCD) in accordance with 19.15.29 of the New Mexico Administrative Code (NMAC). 19.15.29 NMAC establishes reporting, site assessment, remediation and closure procedures based on the type and volume of the release and site characterizations, including proximity to sensitive receptors and depth to groundwater, which may be used to determine a Total Ranking Score as follows:

Site Characteristics	
Approximate Depth to Groundwater	~50 ft - 75 ft
Within 300 ft. of any continuously flowing or significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 200 ft. of any lakebed, sinkhole, or playa lake?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 ft. of an occupied permanent residence, school, hospital, or institution?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 500 ft. of a spring or private, domestic fresh water well?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 1,000 ft. of any fresh water well?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the incorporated municipal boundaries or within a municipal well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within 300 ft. of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the area overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within an unstable area?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

A search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) was conducted to determine the average depth to groundwater within a 1 mile radius of the Release Site and identify any registered water wells within a 1/2 Mile of the Release Site. The NMOSE groundwater database did not identify any water wells within a one (1) mile radius of the Release Site. A search of The United States Geological Survey (USGS) National Water Information System identified one (1) water well within a one (1) mile radius of the Release Site. The water well (USGS 323148103295801 20S.35E.31.12311) was last gauged on February 2, 1996 and the reported depth to groundwater was 65.29 feet below ground surface. Depth to groundwater information is provided as Attachment #4.

Based on the approximate depth to groundwater and site characteristics, the NMOCD Closure Criteria are as follows:

Table I Criteria for Soils Impacted by a Release			Closure
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
51 ft - 100 ft	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

INITIAL SITE ASSESSMENT

On **October 05, 2018**, an initial site assessment was conducted at the Site. During the initial site assessment, **fourteen (14) soil samples** were collected from **seven (7) locations** (HA-1 through HA-7) within the inferred release margins in an effort to determine the vertical extent of soil impact. In addition, **four (4) soil samples** were collected from outside the inferred release margins in an effort to determine the horizontal extent of soil impact. The collected soil samples were submitted to an NMOCD-approved laboratory for analysis of BTEX, TPH and chloride concentrations. Figure 3A depicts the locations of soil samples collected the initial site assessment. A table summarizing laboratory analytical results from soil samples collected during the initial site assessment is provided below:

Concentrations of BTEX, TPH and/or Chloride in Soil											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E 300
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₅ (mg/kg)	TPH C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
HA-1 @ 6"	10/5/2018	6"	Excavated	19.8	558	5,850	27,900	33,750	4,710	38,460	-
HA-1 @ 2'	10/5/2018	2'	In-Situ	<0.050	0.409	<10.0	150	150	55.1	205	2,720
HA-2 @ 6"	10/5/2018	6"	Excavated	9.14	314	3,950	21,300	25,250	3,570	28,820	-
HA-2 @ 4'	10/5/2018	4'	In-Situ	2.08	100	286	1,760	2,046	282	2,328	112
HA-3 @ 6"	10/5/2018	6"	Excavated	18.1	417	4,390	25,000	29,390	4,790	34,180	-
HA-3 @ 2'	10/5/2018	2'	In-Situ	<0.050	<0.300	<10.0	26.3	26.3	14.3	40.6	1,280
HA-4 @ 6"	10/5/2018	6"	Excavated	2.47	81.4	579	4,010	4,589	616	5,205	-
HA-4 @ 2'	10/5/2018	2'	Excavated	<0.050	0.458	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
HA-5 @ 6"	10/5/2018	6"	Excavated	4.91	206	1,590	7,260	8,850	978	9,828	-
HA-5 @ 3'	10/5/2018	3'	Excavated	<0.050	2.39	<10.0	70.4	70.4	20.1	90.5	16.0
HA-6 @ 6"	10/5/2018	6"	Excavated	3.03	112	768	6,460	7,228	995	8,223	-
HA-6 @ 4'	10/5/2018	4'	In-Situ	<0.050	1.86	53.6	650	703.6	109	812.6	96.0
HA-7 @ 6"	10/5/2018	6"	Excavated	2.51	122	1,050	6,930	7,980	1,020	9,000	-
HA-7 @ 2'	10/5/2018	2'	In-Situ	<0.050	0.546	<10.0	54	54	17.4	71.6	256
N	10/5/2018	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	-
E	10/5/2018	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	-
S	10/5/2018	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	-
W	10/5/2018	6"	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	-
Closure Criteria				10	50	-	-	1,000	-	2,500	10,000

Field Data, if applicable, is provided as Attachment #5. Laboratory analytical reports are provided as Attachment #6.

REMEDIATION PLAN

Based on laboratory analytical results, site characteristics and field observations made during the initial site assessment, Plains Pipeline, LP, proposed the following remediation activities designed to advance the Release Site toward an NMOCD approved closure:

- Utilizing mechanical equipment, excavate impacted soil within the release margins in the area characterized by sample points HA-2 and HA-6 to a depth of approximately four (4) ft. bgs and the area characterized by sample point HA-7 to a depth of approximately two (2) ft. bgs, or until laboratory analytical results from confirmation soil samples indicated BTEX, TPH and chloride concentrations are below the applicable NMOCD Closure Criteria.
- Utilizing non-mechanical methods, excavate impacted soil within the release margins in the area characterized by sample points HA-1, HA-3, and HA-4 to a depth of approximately two (2) ft. bgs and the area characterized by sample point HA-5 to a depth of approximately three (3) ft. bgs, or until laboratory analytical results from confirmation soil samples indicated BTEX, TPH and chloride concentrations are below the applicable NMOCD Closure Criteria.
- Advance the sidewalls of the excavation until laboratory analytical results for excavation confirmation soil samples indicated that BTEX, TPH and chloride concentrations are below the applicable NMOCD Closure Criteria.
- Excavated soil will be temporarily stockpiled on-site, atop a polyethylene liner, pending transportation under manifest to a NMOCD-approved disposal facility.
- After receiving laboratory analytical results indicating confirmation soil samples are below the applicable NMOCD-Closure criteria excavated areas will be backfilled with locally sourced, non-impacted "like" material, at or near original relative positions. The affected area will be contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable.

SAMPLING PLAN

After completion of excavation activities, representative five-point excavation confirmation soil samples will be collected from the excavation sidewalls, representing an area no greater than 200 square feet. A minimum of six (6) representative five-point composite excavation confirmation soil sample will be collected from the base of the excavated area representing every 200 square feet. Additional "discrete" confirmation soil samples will be collected from wet or visibly stained areas inferred to have been affected by the release, as necessary.

SUMMARY OF FIELD ACTIVITIES

Impacted soil within the inferred release margins was excavated and temporarily stockpiled on-site, atop an impermeable polyethylene liner, pending final disposition. The floor and sidewalls of the excavation were advanced until visual and olfactory evidence suggested BTEX and/or TPH concentrations were below the NMOCD Closure Criteria. Upon excavating impacted soil from within the inferred release margins, twelve (12) confirmation soil samples were collected from the floor and sidewalls of the excavated area representing. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. After receiving laboratory analytical data, samples exhibiting BTEX, TPH and/or chloride concentrations above applicable NMOCD Closure Criteria were advanced until visual and olfactory evidence suggested concentrations were below NMOCD Closure Criteria and/or until facility limitations and safety concerns required excavation activities in certain areas to cease. After receiving laboratory analytical results exhibiting BTEX, TPH and/or chloride concentrations below NMOCD Closure Criteria, in areas not affected by facility restrictions and safety concerns, the impacted soil was transported under manifest to a NMOCD-approved facility.

On November 15, 2018, a TRC representative revisited the Site in an effort to obtain delineation in the areas of the excavation where remediation activities could not be completed (FL-2 and FL-3), due to facility restrictions and safety concerns. Using non-mechanical methods, sample point FL-2 was advanced vertically until a layer of resistance was encountered at approximately eight (8) feet (ft.) below ground surface (bgs). Sample point FL-3 was advanced vertically until visual and olfactory evidence suggested BTEX, TPH and/or chloride concentrations were below applicable NMOCD Closure Criteria. The collected samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. A table summarizing laboratory analytical results from confirmation soil samples is provided below:

On December 12, 2018, representatives from Plains Pipeline, LP (Plains) and TRC Companies (TRC) met with a representative for the NMOCD, District 1 at the NMOCD office in Hobbs, NM. TRC and Plains representatives presented information showing that remediation could not be completed at the Site in the areas represented by FL-2, FL-3, and Wall-3 without major site deconstruction due to facility limitations and safety concerns. After reviewing the provided information, it was of the opinion of the NMOCD District 1 representative that a deferral requested should be prepared and submitted for this Release Site. The representative also stated that they would speak with the Bureau Chief about deferring delineation of the Site in the area represented by sample point FL-2 on the same basis as the deferral for remediation. Email correspondence summarizing the meeting is provided as Attachment #10.

After receiving direction from the NMOCD District 1 representative the excavated area was backfilled with locally sourced, non-impacted "like" material. Figure 3B depicts the locations of confirmation soil samples and additional delineation samples, collected on November 2, 2018 and November 15, 2018 respectively.

On May 1, 2019, Plains submitted a *Remediation Summary and Deferral Request* to the NMOCD. **On November 22, 2019**, Plains received an email from the NMOCD, which indicated the *Deferral Request* was denied by the NMOCD due to the incomplete vertical delineation of the area represented by soil sample F-2. **On January 8, 2020**, a backhoe was utilized to advance a delineation trench in the area represented by soil sample F-2. Soil samples F-2 @ 9', F-2 @ 10', F-2 @ 11', and F-2 @ 12' were collected and submitted to the laboratory for BTEX, TPH, and chloride analysis. Based on the analytical results, which indicated all benzene, BTEX, TPH, and chloride concentrations were below NMOCD closure criteria, vertical delineation was achieved at approximately nine (9) feet bgs and confirmed by soil samples collected at ten (10), eleven (11), and twelve (12) feet bgs.

Concentrations of BTEX, TPH and/or Chloride in Soil											
Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E 300
				Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	EXT DRO C ₂₈ -C ₃₅ (mg/kg)	TPH C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
FL-1 @ 2'	11/2/2018	2'	In-Situ	<0.050	<0.300	<10.0	19.9	19.9	<10.0	19.9	64.0
Wall-1 @ 1'	11/2/2018	1'	In-Situ	<0.050	<0.300	<10.0	48.2	48.2	<10.0	48.2	400
FL-2 @ 4'	11/2/2018	4'	In-Situ	16.5	298	1,180	5,940	7,750	843	8,593	48.0
F-2 @ 5'	11/15/2018	5'	In-Situ	66.1	836	4,850	10,300	15,150	1,450	16,600	32.0
F-2 @ 6'	11/15/2018	6'	In-Situ	52.9	613	5,320	11,000	16,320	1,590	17,910	32.0
F-2 @ 7'	11/15/2018	7'	In-Situ	66.6	727	4,400	9,270	13,670	1,610	15,280	<16.0
F-2 @ 8'	11/15/2018	8'	In-Situ	25.1	395	2,900	6,260	9,160	1,040	10,200	16.0
Wall-2 @ 2'	11/2/2018	2'	In-Situ	<0.050	0.328	<10.0	213	213	46.9	259.9	448.0
FL-3 @ 2'	11/2/2018	2'	In-Situ	<0.100	15.3	312	2,570	2,882	420	3,302	80.0
F-3 @ 3'	11/15/2018	3'	In-Situ	0.638	19.6	101	583	684	97.4	781.4	32.0
F-3 @ 4'	11/15/2018	4'	In-Situ	<0.050	0.598	<10.0	74.7	74.7	11.8	86.5	32.0
Wall-3 @ 1'	11/2/2018	1'	In-Situ	<0.050	<0.300	<10.0	308	308	74.9	382.9	608
FL-4 @ 3'	11/2/2018	3'	In-Situ	<0.050	1.25	11.3	328	339	54.0	393.3	16.0
Wall-4 @ 1.5'	11/2/2018	1.5'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FL-5 @ 4'	11/2/2018	4'	In-Situ	<0.050	2.43	30.7	519	549.7	72.9	622.6	16.0
Wall-5 @ 2'	11/2/2018	2'	In-Situ	<0.050	<0.300	11.7	229	310.7	49.1	359.8	128
FL-6 @ 2'	11/2/2018	2'	In-Situ	<0.050	<0.300	<10.0	24.7	24.7	<10.0	24.7	32.0
Wall-6 @ 1'	11/2/2018	1'	In-Situ	<0.050	<0.300	<10.0	15.6	15.6	<10.0	15.6	32.0
F-2 @ 9'	1/6/2020	9'	In-Situ	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
F-2 @ 10'	1/6/2020	10'	In-Situ	<0.050	<0.300	<10.0	83.7	83.7	16.9	100.6	32.0
F-2 @ 11'	1/6/2020	11'	In-Situ	<0.050	<0.300	<10.0	100	100	20.6	120.6	32.0
F-2 @ 12'	1/6/2020	12'	In-Situ	<0.050	0.891	35.6	620	655.6	152	807.6	32.0
Closure Criteria				10	50	-	-	1,000	-	2,500	10,000

A Photographic Log is provided as Attachment #8

DEFERRAL REQUEST

The Release occurred and was contained within the area characterized by the production pad. Based on laboratory analytical results from soil samples collected during the Remediation Activities, soil impacted above NMOCDClosure Criteria within the release margins, not effected by facility restraints, have been excavated and disposed of at an NMOCDClosure approved disposal facility. Plains Pipeline, LP maintains that areas where remediation and delineation activities could not be completed were located beneath or adjacent to the LACT Unit and/or below ground pipelines and utilities, which could result in potentially hazardous conditions and property damage. Plains Pipeline, LP requests remediation, restoration, and reclamation in these areas be deferred until the equipment is removed during operations and/or time of abandonment, whichever comes first.

RESTORATION, RECLAMATION AND RE-VEGETATION

Areas affected by the Release and the associated areas where remediation activities were feasible based on the location of active equipment and pipelines was restored to the condition which existed prior to the Release, to the maximum extent practical. Final remediation and reclamation in the areas affected by the Release, where remediation activities could not be completed, will be conducted in accordance with 19.15.29.12 and 19.15.29.13 NMAC, when the Site is no longer being utilized for oil and gas operations. Excavated areas were backfilled with locally sourced, non-impacted "like" material.

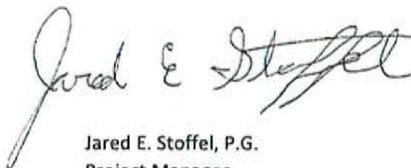
The Stratojet 31 State Com #006H Release Site is located on an area characterized by a production pad and final restoration, reclamation and re-vegetation will take place at time of abandonment.

If you have any questions, or if additional information is required, please feel free to contact Amber Groves or either of the undersigned by phone or email.

Respectfully submitted,

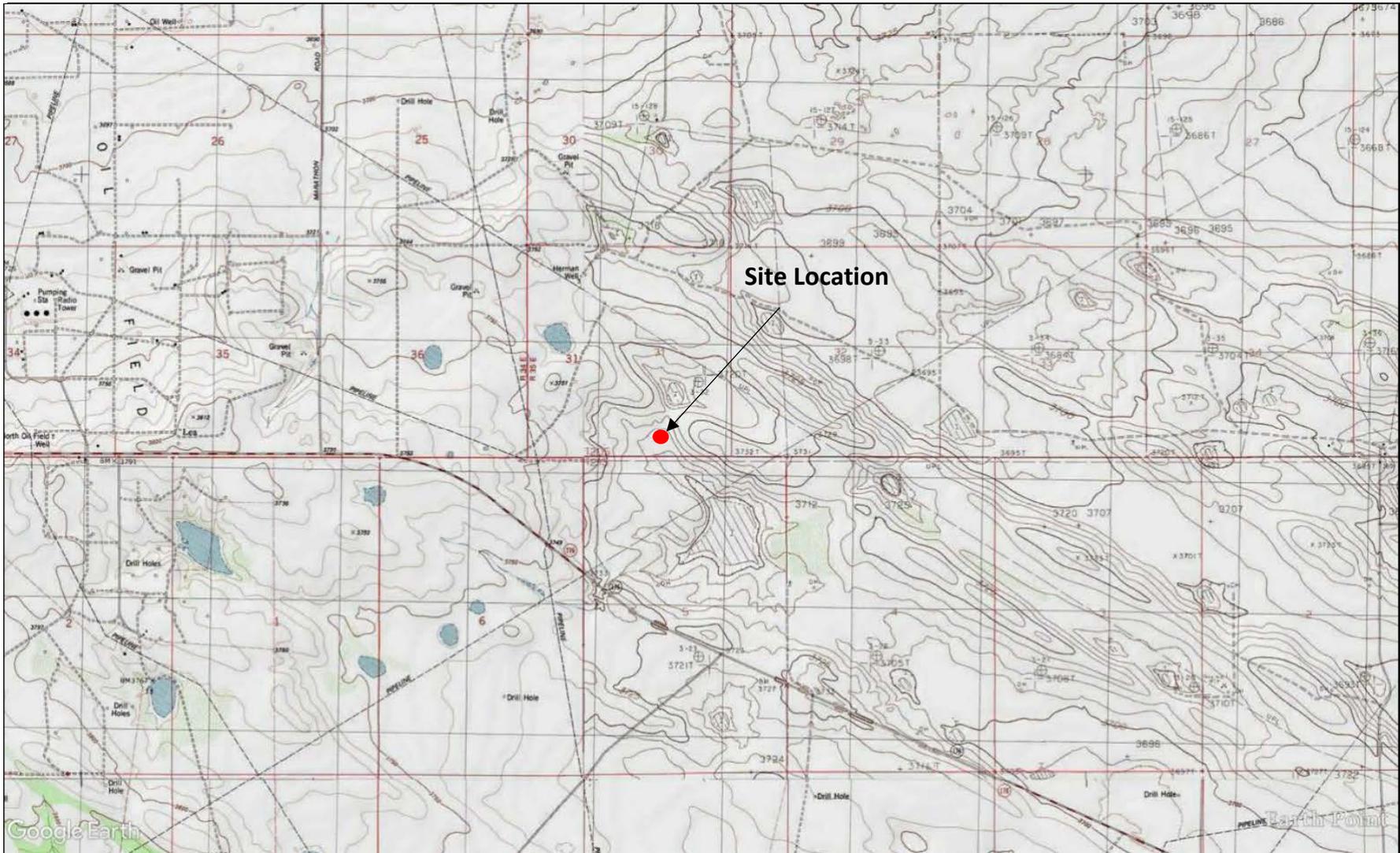


Curt Stanley
Senior Project Manager
cdstanley@trccompanies.com
(432) 559-3296

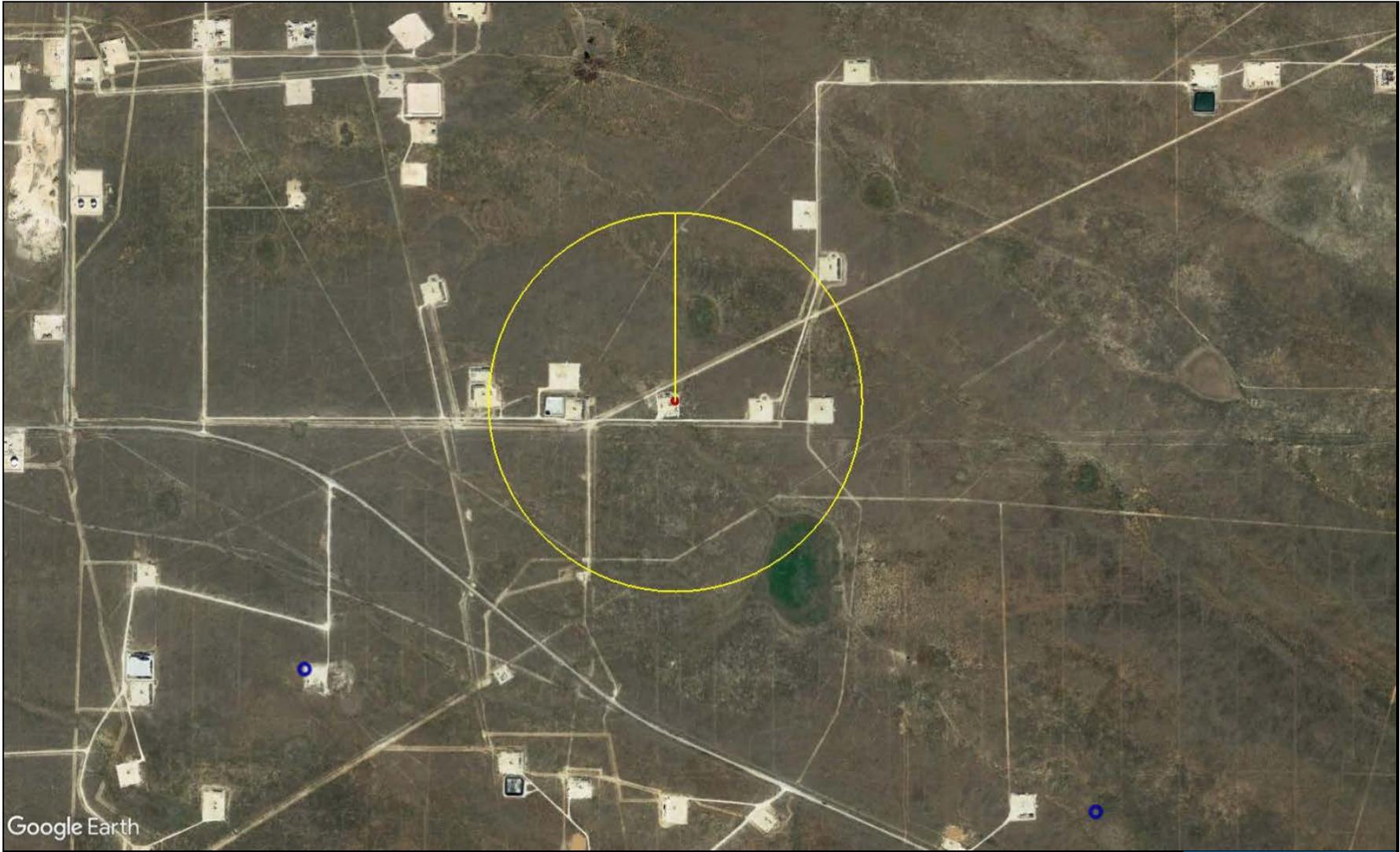


Jared E. Stoffel, P.G.
Project Manager
jstoffel@trccompanies.com
(432) 238-3003

- Attachments:**
- Attachment #1- Figure 1 - Topographical Map
 - Attachment #2- Figure 2 - Aerial Map
 - Attachment #3A- Figure 3A - Site & Confirmation Sample Location Map (Initial)
 - Attachment #3B- Figure 3B - Site & Confirmation Sample Location Map (Confirmation)
 - Attachment #4- Depth to Groundwater Information
 - Attachment #5- Field Data
 - Attachment #6- Laboratory Analytical Reports
 - Attachment #7- Soil Profile
 - Attachment #8- General Site Photographs
 - Attachment #9- Release Notification and Corrective Action (FORM C-141)
 - Attachment #10- Email Correspondence of NMOCD District 1 Meeting



LEGEND:  Site Location	Figure 1		 Results you can rely on
	Topographical Map		
	Plains Pipeline, LP		
	Stratojet 31 State Com #006H		
	Lea County, NM		
	Drafted by: BC Checked by: JL		
	Draft: October 03, 2018		
	GPS: 32.523582 -103.494174		
	UL "O", Sec. 31, T20S, R35E		
	TRC Proj. No: 316817		



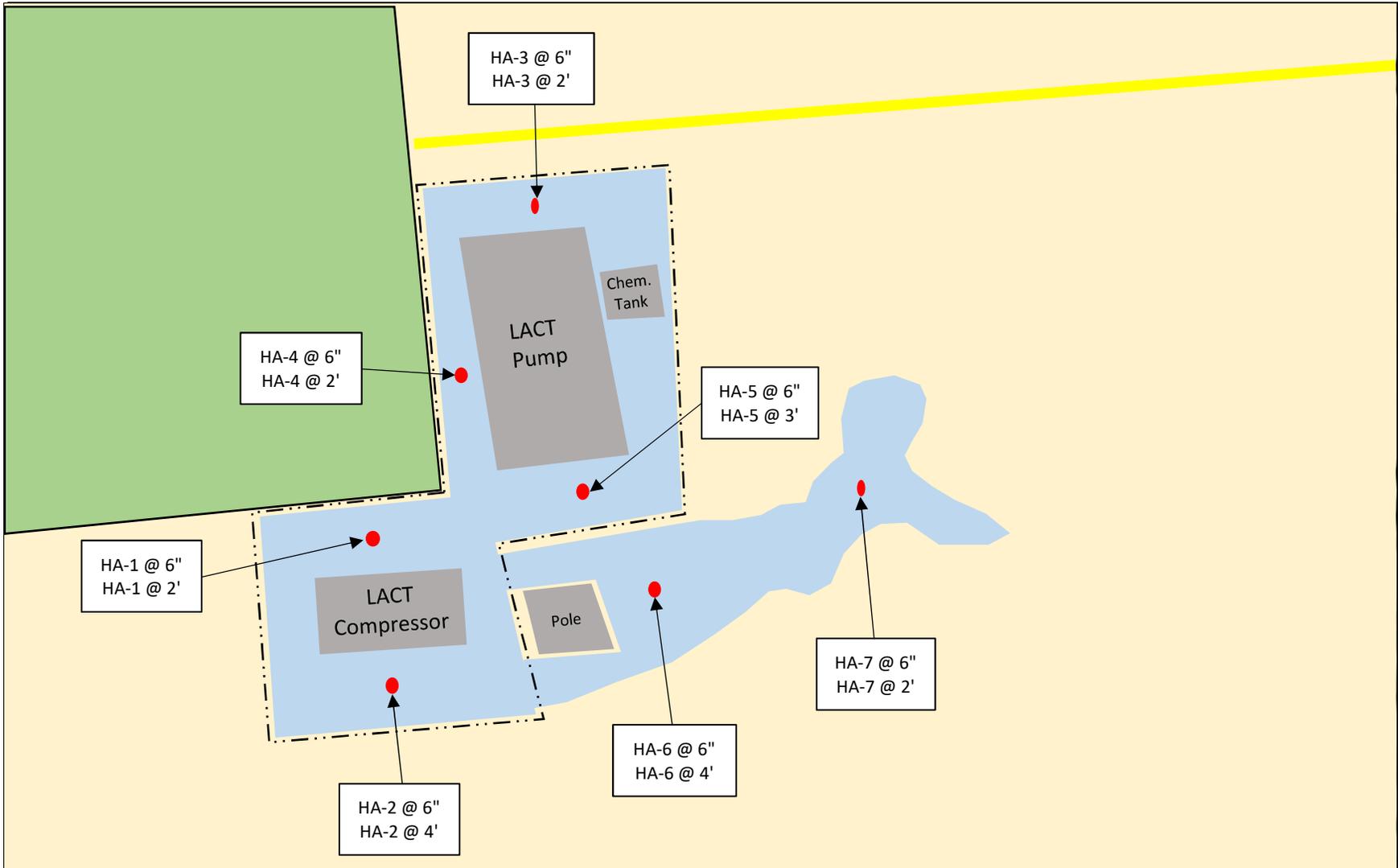
LEGEND:	
	Site Location
	Fresh Water Well
	100-Year Floodplain
	High/Critical Karst
	Non-Industrial Building
	Municipal Well Field
	Subsurface Mine
	1/2 Mile Radius

Figure 2

Aerial Map
Plains Pipeline, LP
Stratojet 31 State Com #006H
Lea County, NM

Drafted by: BC Checked by: JL	
Draft: October 03, 2018	
GPS:	32.523582 -103.494174
UL "O", Sec. 31, T20S, R35E	
TRC Proj. No:	316817





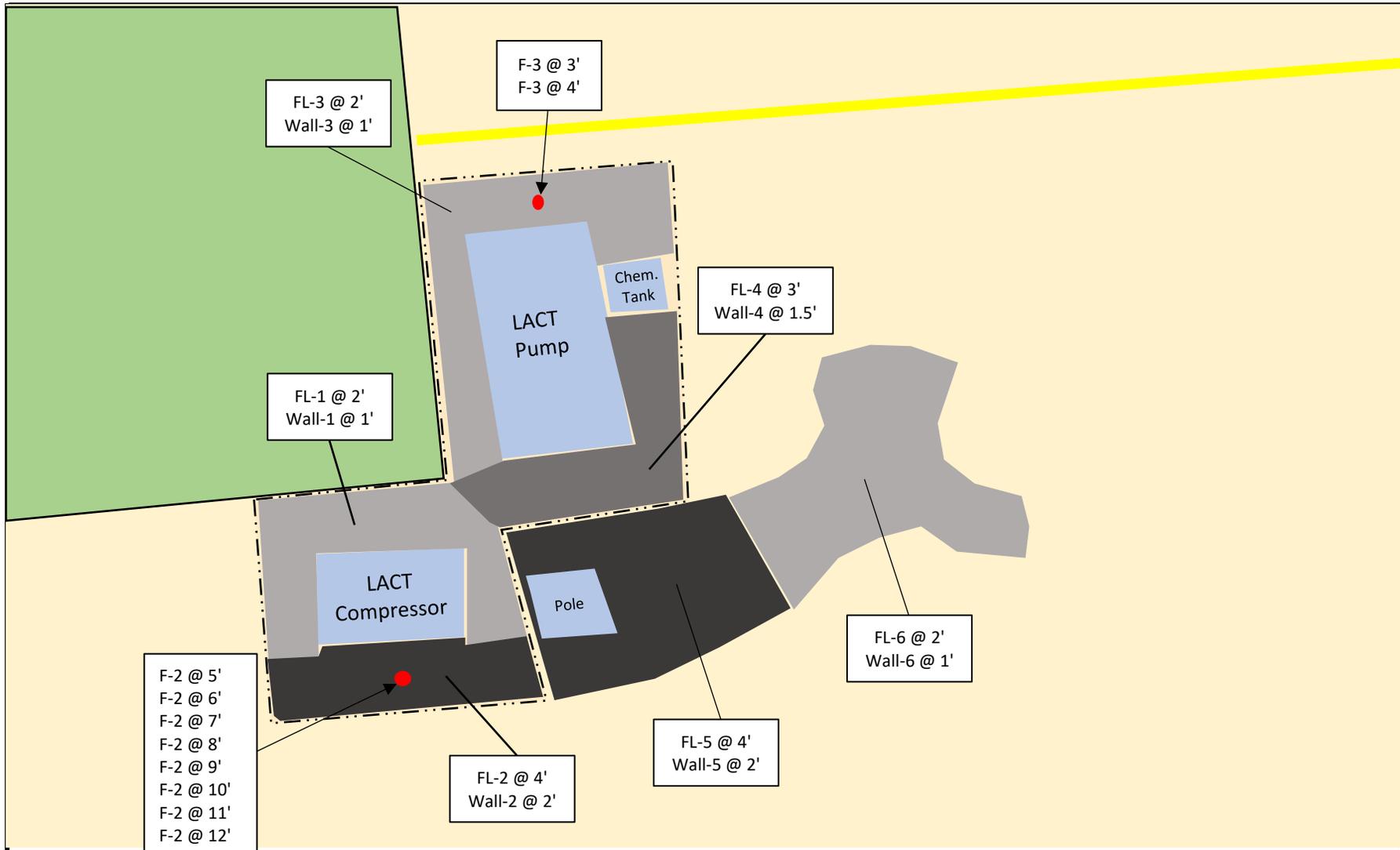
LEGEND:

	Inferred Release Margins		Surface Pipeline
	Sample Point Location		
	LACT Facility		
	LACT Equipment		
	Tank Battery Facility		

Figure 3A
 Site & Sample Location Map
 (Initial)
 Plains Pipeline, LP
 Stratojet 31 State Com #006H
 Lea County, NM

Drafted by: BC Checked by: CS	
Draft: April 02, 2019	
GPS:	32.523582 -103.494174
UL "O", Sec. 31, T20S, R35E	
TRC Proj. No:	316817





LEGEND:	
	Tank Battery Facility
	Excavated Area @ 2'
	Excavated Area @ 3'
	Excavated Area @ 4'
	LACT Facility
	LACT Equipment
	Surface Pipeline
	Sample Point

Figure 3B
 Site & Sample Location Map
 (Confirmation)
 Plains Pipeline, LP
 COG: Stratojet 31 State Com #006H
 Lea County, NM

Drafted by: BC Checked by: CS		
Draft: January 31, 2020		
GPS:	32.523582	-103.494174
UL "O", Sec. 31, T20S, R35E		
TRC Proj. No:	316817	



10/3/2018

nmwrrs.ose.state.nm.us/nmwrrs/ReportProxy?queryData=%7B"report"%3A"waterColumn"%2C%0A"BasinDiv"%3A>false"%2C%0A"Usa...



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 641426

Northing (Y): 3599472.54

Radius: 1610

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

10/3/18 10:45 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



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National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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- [Full News](#)

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
 site_no list =
 • 323148103295801

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 323148103295801 20S.35E.31.12311

Lea County, New Mexico
 Latitude 32°32'06", Longitude 103°30'03" NAD27
 Land-surface elevation 3,729.00 feet above NGVD29
 The depth of the well is 85 feet below land surface.
 This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement
1954-06-25		D	68.15			2	R		U	
1961-03-08		D	66.38			2	R		U	
1966-03-02		D	69.16			2	R		U	
1968-04-17		D	67.57			2	R		U	
1971-01-26		D	65.45			2			U	
1976-02-18		D	64.33			2			U	
1981-02-18		D	64.03			2			U	
1986-04-09		D	64.93			2			U	
1991-07-03		D	66.04			2			U	
1996-02-02		D	65.29			2			S	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined

Section	Code	Description
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

- [Questions about sites/data?](#)
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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2020-02-10 17:30:19 EST

0.26 0.24 nadww01



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 16, 2018

JOEL LOWRY

PLAINS ALL AMERICAN PIPELINE

505 NORTH BIG SPRINGS ST STE. 600

MIDLAND, TX 79701

RE: STRATOJET 31 #2H

Enclosed are the results of analyses for samples received by the laboratory on 10/05/18 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-1 @ 6" (H802843-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	19.8	1.00	10/10/2018	ND	2.06	103	2.00	3.30		
Toluene*	171	1.00	10/10/2018	ND	1.89	94.7	2.00	3.11		
Ethylbenzene*	119	1.00	10/10/2018	ND	1.84	92.0	2.00	4.90		
Total Xylenes*	249	3.00	10/10/2018	ND	5.49	91.5	6.00	5.18		
Total BTEX	558	6.00	10/10/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	5850	50.0	10/10/2018	ND	203	102	200	0.0719			
DRO >C10-C28*	27900	50.0	10/10/2018	ND	198	99.1	200	0.625			
EXT DRO >C28-C36	4710	50.0	10/10/2018	ND							

Surrogate: 1-Chlorooctane 369 % 41-142

Surrogate: 1-Chlorooctadecane 904 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-1 @ 2' (H802843-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2018	ND	2.12	106	2.00	0.321	
Toluene*	0.120	0.050	10/08/2018	ND	1.97	98.7	2.00	0.155	
Ethylbenzene*	0.082	0.050	10/08/2018	ND	1.96	98.2	2.00	0.276	
Total Xylenes*	0.207	0.150	10/08/2018	ND	5.89	98.2	6.00	0.482	
Total BTEX	0.409	0.300	10/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	10/10/2018	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	203	102	200	0.0719	
DRO >C10-C28*	150	10.0	10/10/2018	ND	198	99.1	200	0.625	
EXT DRO >C28-C36	55.1	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 90.2 % 41-142

Surrogate: 1-Chlorooctadecane 94.9 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-2 @ 6" (H802843-03)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.14	2.00	10/08/2018	ND	2.12	106	2.00	0.321	
Toluene*	92.3	2.00	10/08/2018	ND	1.97	98.7	2.00	0.155	
Ethylbenzene*	66.9	2.00	10/08/2018	ND	1.96	98.2	2.00	0.276	
Total Xylenes*	146	6.00	10/08/2018	ND	5.89	98.2	6.00	0.482	
Total BTEX	314	12.0	10/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	3950	50.0	10/10/2018	ND	203	102	200	0.0719		
DRO >C10-C28*	21300	50.0	10/10/2018	ND	198	99.1	200	0.625		
EXT DRO >C28-C36	3570	50.0	10/10/2018	ND						

Surrogate: 1-Chlorooctane 284 % 41-142

Surrogate: 1-Chlorooctadecane 904 % 37.6-147

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-2 @ 4' (H802843-04)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.08	1.00	10/08/2018	ND	2.12	106	2.00	0.321	
Toluene*	29.4	1.00	10/08/2018	ND	1.97	98.7	2.00	0.155	
Ethylbenzene*	21.4	1.00	10/08/2018	ND	1.96	98.2	2.00	0.276	
Total Xylenes*	47.3	3.00	10/08/2018	ND	5.89	98.2	6.00	0.482	
Total BTEX	100	6.00	10/08/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/10/2018	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	286	10.0	10/08/2018	ND	169	84.7	200	0.970		
DRO >C10-C28*	1760	10.0	10/08/2018	ND	172	85.8	200	2.75	QM-07	
EXT DRO >C28-C36	282	10.0	10/08/2018	ND						

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 157 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-3 @ 6" (H802843-05)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.1	1.00	10/12/2018	ND	2.12	106	2.00	0.321	
Toluene*	148	1.00	10/12/2018	ND	1.97	98.7	2.00	0.155	
Ethylbenzene*	86.0	1.00	10/12/2018	ND	1.96	98.2	2.00	0.276	
Total Xylenes*	165	3.00	10/12/2018	ND	5.89	98.2	6.00	0.482	
Total BTEX	417	6.00	10/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4390	50.0	10/08/2018	ND	169	84.7	200	0.970		
DRO >C10-C28*	25000	50.0	10/08/2018	ND	172	85.8	200	2.75		
EXT DRO >C28-C36	4790	50.0	10/08/2018	ND						

Surrogate: 1-Chlorooctane 309 % 41-142

Surrogate: 1-Chlorooctadecane 1240 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-3 @ 2' (H802843-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2018	ND	1.88	94.1	2.00	0.659	
Toluene*	0.117	0.050	10/09/2018	ND	1.84	92.2	2.00	0.559	
Ethylbenzene*	<0.050	0.050	10/09/2018	ND	1.87	93.7	2.00	0.508	
Total Xylenes*	<0.150	0.150	10/09/2018	ND	5.48	91.3	6.00	0.449	
Total BTEX	<0.300	0.300	10/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	10/10/2018	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2018	ND	169	84.7	200	0.970	
DRO >C10-C28*	26.3	10.0	10/08/2018	ND	172	85.8	200	2.75	
EXT DRO >C28-C36	14.3	10.0	10/08/2018	ND					

Surrogate: 1-Chlorooctane 86.5 % 41-142

Surrogate: 1-Chlorooctadecane 86.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-4 @ 6" (H802843-07)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.47	0.200	10/09/2018	ND	1.88	94.1	2.00	0.659	
Toluene*	23.1	0.200	10/09/2018	ND	1.84	92.2	2.00	0.559	
Ethylbenzene*	18.1	0.200	10/09/2018	ND	1.87	93.7	2.00	0.508	
Total Xylenes*	37.7	0.600	10/09/2018	ND	5.48	91.3	6.00	0.449	
Total BTEX	81.4	1.20	10/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 150 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	579	10.0	10/08/2018	ND	169	84.7	200	0.970	
DRO >C10-C28*	4010	10.0	10/08/2018	ND	172	85.8	200	2.75	
EXT DRO >C28-C36	616	10.0	10/08/2018	ND					

Surrogate: 1-Chlorooctane 137 % 41-142

Surrogate: 1-Chlorooctadecane 140 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-4 @ 2' (H802843-08)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2018	ND	1.88	94.1	2.00	0.659	
Toluene*	0.133	0.050	10/09/2018	ND	1.84	92.2	2.00	0.559	
Ethylbenzene*	0.094	0.050	10/09/2018	ND	1.87	93.7	2.00	0.508	
Total Xylenes*	0.230	0.150	10/09/2018	ND	5.48	91.3	6.00	0.449	
Total BTEX	0.458	0.300	10/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.8-142

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/10/2018	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	173	86.3	200	17.6	
DRO >C10-C28*	<10.0	10.0	10/10/2018	ND	197	98.5	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 87.3 % 41-142

Surrogate: 1-Chlorooctadecane 79.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-5 @ 6" (H802843-09)

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	4.91	0.500	10/10/2018	ND	1.88	94.1	2.00	0.659		
Toluene*	50.8	0.500	10/10/2018	ND	1.84	92.2	2.00	0.559		
Ethylbenzene*	47.7	0.500	10/10/2018	ND	1.87	93.7	2.00	0.508		
Total Xylenes*	103	1.50	10/10/2018	ND	5.48	91.3	6.00	0.449		
Total BTEX	206	3.00	10/10/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 149 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1590	50.0	10/10/2018	ND	173	86.3	200	17.6		
DRO >C10-C28*	7260	50.0	10/10/2018	ND	197	98.5	200	11.9		
EXT DRO >C28-C36	978	50.0	10/10/2018	ND						

Surrogate: 1-Chlorooctane 201 % 41-142

Surrogate: 1-Chlorooctadecane 186 % 37.6-147

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-5 @ 3' (H802843-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/09/2018	ND	1.88	94.1	2.00	0.659	
Toluene*	0.190	0.050	10/09/2018	ND	1.84	92.2	2.00	0.559	
Ethylbenzene*	0.279	0.050	10/09/2018	ND	1.87	93.7	2.00	0.508	
Total Xylenes*	1.92	0.150	10/09/2018	ND	5.48	91.3	6.00	0.449	
Total BTEX	2.39	0.300	10/09/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/10/2018	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	173	86.3	200	17.6	
DRO >C10-C28*	70.4	10.0	10/10/2018	ND	197	98.5	200	11.9	
EXT DRO >C28-C36	20.1	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 85.5 % 41-142

Surrogate: 1-Chlorooctadecane 81.6 % 37.6-147

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-6 @ 6" (H802843-11)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	3.03	0.200	10/09/2018	ND	1.88	94.1	2.00	0.659		
Toluene*	31.4	0.200	10/09/2018	ND	1.84	92.2	2.00	0.559		
Ethylbenzene*	24.6	0.200	10/09/2018	ND	1.87	93.7	2.00	0.508		
Total Xylenes*	52.7	0.600	10/09/2018	ND	5.48	91.3	6.00	0.449		
Total BTEX	112	1.20	10/09/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 167 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	768	50.0	10/10/2018	ND	173	86.3	200	17.6		
DRO >C10-C28*	6460	50.0	10/10/2018	ND	197	98.5	200	11.9		
EXT DRO >C28-C36	995	50.0	10/10/2018	ND						

Surrogate: 1-Chlorooctane 154 % 41-142

Surrogate: 1-Chlorooctadecane 164 % 37.6-147

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-6 @ 4' (H802843-12)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.19	109	2.00	2.89	
Toluene*	0.283	0.050	10/11/2018	ND	2.06	103	2.00	3.17	
Ethylbenzene*	0.430	0.050	10/11/2018	ND	2.07	103	2.00	2.33	
Total Xylenes*	1.15	0.150	10/11/2018	ND	6.13	102	6.00	2.42	
Total BTEX	1.86	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/10/2018	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	53.6	10.0	10/10/2018	ND	173	86.3	200	17.6	
DRO >C10-C28*	650	10.0	10/10/2018	ND	197	98.5	200	11.9	
EXT DRO >C28-C36	109	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 91.2 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-7 @ 6" (H802843-13)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.51	0.200	10/11/2018	ND	2.19	109	2.00	2.89	
Toluene*	32.4	0.200	10/11/2018	ND	2.06	103	2.00	3.17	
Ethylbenzene*	26.1	0.200	10/11/2018	ND	2.07	103	2.00	2.33	
Total Xylenes*	60.5	0.600	10/11/2018	ND	6.13	102	6.00	2.42	
Total BTEX	122	1.20	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	1050	50.0	10/10/2018	ND	173	86.3	200	17.6		
DRO >C10-C28*	6930	50.0	10/10/2018	ND	197	98.5	200	11.9		
EXT DRO >C28-C36	1020	50.0	10/10/2018	ND						

Surrogate: 1-Chlorooctane 173 % 41-142

Surrogate: 1-Chlorooctadecane 159 % 37.6-147

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: HA-7 @ 2' (H802843-14)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.19	109	2.00	2.89	
Toluene*	0.118	0.050	10/11/2018	ND	2.06	103	2.00	3.17	
Ethylbenzene*	0.109	0.050	10/11/2018	ND	2.07	103	2.00	2.33	
Total Xylenes*	0.320	0.150	10/11/2018	ND	6.13	102	6.00	2.42	
Total BTEX	0.546	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/10/2018	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	173	86.3	200	17.6	
DRO >C10-C28*	54.2	10.0	10/10/2018	ND	197	98.5	200	11.9	
EXT DRO >C28-C36	17.4	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 83.8 % 41-142

Surrogate: 1-Chlorooctadecane 80.9 % 37.6-147

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: N (H802843-15)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.19	109	2.00	2.89	
Toluene*	<0.050	0.050	10/11/2018	ND	2.06	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.07	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.13	102	6.00	2.42	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	173	86.3	200	17.6	
DRO >C10-C28*	<10.0	10.0	10/10/2018	ND	197	98.5	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 86.3 % 41-142

Surrogate: 1-Chlorooctadecane 81.6 % 37.6-147

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: E (H802843-16)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.19	109	2.00	2.89	
Toluene*	<0.050	0.050	10/11/2018	ND	2.06	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.07	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.13	102	6.00	2.42	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.6 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	173	86.3	200	17.6	
DRO >C10-C28*	<10.0	10.0	10/10/2018	ND	197	98.5	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 89.3 % 41-142

Surrogate: 1-Chlorooctadecane 84.5 % 37.6-147

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: S (H802843-17)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/11/2018	ND	2.19	109	2.00	2.89		
Toluene*	<0.050	0.050	10/11/2018	ND	2.06	103	2.00	3.17		
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.07	103	2.00	2.33		
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.13	102	6.00	2.42		
Total BTEX	<0.300	0.300	10/11/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	173	86.3	200	17.6		
DRO >C10-C28*	<10.0	10.0	10/10/2018	ND	197	98.5	200	11.9		
EXT DRO >C28-C36	<10.0	10.0	10/10/2018	ND						

Surrogate: 1-Chlorooctane 91.7 % 41-142

Surrogate: 1-Chlorooctadecane 86.1 % 37.6-147

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
 JOEL LOWRY
 505 NORTH BIG SPRINGS ST STE. 600
 MIDLAND TX, 79701
 Fax To:

Received:	10/05/2018	Sampling Date:	10/05/2018
Reported:	10/16/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 #2H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LEA CO NM		

Sample ID: W (H802843-18)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.19	109	2.00	2.89	
Toluene*	<0.050	0.050	10/11/2018	ND	2.06	103	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.07	103	2.00	2.33	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.13	102	6.00	2.42	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 69.8-142

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	173	86.3	200	17.6	
DRO >C10-C28*	<10.0	10.0	10/10/2018	ND	197	98.5	200	11.9	
EXT DRO >C28-C36	<10.0	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 84.0 % 41-142

Surrogate: 1-Chlorooctadecane 79.1 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celestine Keene (handwritten signature)

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: TRC Solutions Project Manager: Joel Lowry Address: 10 Desta Drive Suite 150E City: Midland State: TX Zip: 79705 Phone #: 432-466-4450 Fax #: _____ Project #: _____ Project Owner: _____ Project Name: <i>Shalyet 31 #24</i> Project Location: _____ Sampler Name: <i>Becky</i> FOR LAB USE ONLY		BILL TO P.O. #: _____ Company: <i>Platts</i> Attn: <i>Amber Groves</i> Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
Lab I.D. Sample I.D. <i>H202842</i>		ANALYSIS REQUEST	
1 HA-1 @ 6" 2 HA-1 @ 2' 3 HA-2 @ 6" 4 HA-2 @ 4' 5 HA-3 @ 6" 6 HA-3 @ 2' 7 HA-4 @ 6" 8 HA-4 @ 2' 9 HA-5 @ 6" 10 HA-5 @ 3'	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING	DATE TIME 9:00 10-5-18 9:10 9:20 9:30 9:40 9:50 10:00 10:10 10:20
Relinquished By: <i>Becky</i> Date: <i>10-5-18</i> Time: <i>14:50</i> Received By: <i>Amber Groves</i> Date: _____ Time: _____		REMARKS: CI- 100 TPH 8015 MEXT BTEX 8021B	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <i>1.6c Hq7</i>		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: <i>TD</i>	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: TRC Solutions		P.O. #:	
Project Manager: Joel Lowry		Company: Plains	
Address: 10 Desta Drive Suite 150E		Attn: Adam Groves	
City: Midland State: TX Zip: 79705		Address:	
Phone #: 432-466-4450 Fax #:		City:	
Project #:		State:	
Project Name: Stratjet 31 # 2H		Zip:	
Project Location:		Phone #:	
Sampler Name: Becky		Fax #:	
FOR LAB USE ONLY		MATRIX	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS
H8028475	11 HA-6 @ 6"		
	12 HA-6 @ 4"		
	13 HA-7 @ 6"		
	14 HA-7 @ 2'		
	15 N		
	16 5F		
	17 5		
	18 6W		
		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER :	
		ACID/BASE:	
		ICE / COOL	
		OTHER :	
		DATE	TIME
		10-5-18	10:40
			10:50
			11:00
			11:10
			11:20
			11:30
			11:40
			11:50
		CI-	
		TPH 8015 MEXT	
		BTEX 8021B	

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Relinquished By: _____ Date: 10-5-18 Received By: _____
 Relinquished By: _____ Time: 14:50 Received By: _____
 Delivered By: (Circle One) _____
 Sampler - UPS - Bus - Other: _____

Sample Condition: Cool Intact
 Yes No Yes No
 CHECKED BY: (Initials) _____
 REMARKS: jlowry@trcsolutions.com
 beppin@trcsolutions.com
 2 combi@trcsolutions.com

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 18, 2018

JOEL LOWRY

PLAINS ALL AMERICAN PIPELINE

505 NORTH BIG SPRINGS ST STE. 600

MIDLAND, TX 79701

RE: STRATOJET 31 #2H

Enclosed are the results of analyses for samples received by the laboratory on 10/05/18 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PLAINS ALL AMERICAN PIPELINE 505 NORTH BIG SPRINGS ST STE. 600 MIDLAND TX, 79701	Project: STRATOJET 31 #2H Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 18-Oct-18 14:47
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WC	H802840-01	Soil	05-Oct-18 09:00	05-Oct-18 14:50

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
505 NORTH BIG SPRINGS ST STE. 600
MIDLAND TX, 79701

Project: STRATOJET 31 #2H
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
18-Oct-18 14:47

WC**H802840-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	656		16.0	mg/kg	4	8101010	AC	10-Oct-18	4500-Cl-B	
Ignitability	>140		50.0	°F	1	8082817	AC	10-Oct-18	ASTM D 93-80	
Paint Filter Test	FAILED			N/A	1	8100901	AC	09-Oct-18	9095	A-01
pH*	7.98		0.100	pH Units	1	8100809	AC	08-Oct-18	9045	
Reactive Cyanide	<0.100		0.100	mg/kg	1	8101001	AC	11-Oct-18	9010	
Reactive Sulfide	0.0400		0.0100	mg/kg	1	8101001	AC	11-Oct-18	9030	QR-03

Radionuclides**SUB-RS**

Radium-226	0.44 ± 0.02			pCi/gram	1	8061301	CK	15-Oct-18	GammaRay HPGE	
Radium-228	0.20 ± 0.01			pCi/gram	1	8061301	CK	15-Oct-18	GammaRay HPGE	
Total Radium	0.64 ± 0.02			pCi/gram	1	8061301	CK	15-Oct-18	GammaRay HPGE	

TCLP Volatile Organic Compounds by GCMS

Benzene*	0.0557		0.0500	mg/L	100	8100905	ms	09-Oct-18	1311/8260B	
Surrogate: Dibromofluoromethane			100 %	92.9-119		8100905	ms	09-Oct-18	1311/8260B	
Surrogate: Toluene-d8			102 %	86-108		8100905	ms	09-Oct-18	1311/8260B	
Surrogate: 4-Bromofluorobenzene			103 %	81.7-121		8100905	ms	09-Oct-18	1311/8260B	

Green Analytical Laboratories**TCLP Metals by ICP (1311)**

Arsenic	<0.500		0.500	mg/L	5	B810120	AES	15-Oct-18	EPA200.7/13 11	
Barium	1.22		0.250	mg/L	5	B810120	AES	15-Oct-18	EPA200.7/13 11	
Cadmium	<0.250		0.250	mg/L	5	B810120	AES	15-Oct-18	EPA200.7/13 11	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE 505 NORTH BIG SPRINGS ST STE. 600 MIDLAND TX, 79701	Project: STRATOJET 31 #2H Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 18-Oct-18 14:47
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**WC
H802840-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Green Analytical Laboratories

TCLP Metals by ICP (1311)

Chromium	<0.250		0.250	mg/L	5	B810120	AES	15-Oct-18	EPA200.7/13 11	
Lead	<0.500		0.500	mg/L	5	B810120	AES	15-Oct-18	EPA200.7/13 11	
Selenium	<0.500		0.500	mg/L	5	B810120	AES	15-Oct-18	EPA200.7/13 11	
Silver	<0.250		0.250	mg/L	5	B810120	AES	15-Oct-18	EPA200.7/13 11	

TCLP Mercury by CVAA

Mercury	<0.0002		0.0002	mg/L	1	B810122	AES	15-Oct-18	EPA245.1	
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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
505 NORTH BIG SPRINGS ST STE. 600
MIDLAND TX, 79701

Project: STRATOJET 31 #2H
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
18-Oct-18 14:47

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8082817 - General Prep - Wet Chem

LCS (8082817-BS1)		Prepared & Analyzed: 28-Aug-18								
Ignitability	80.0		°F	80.0		100	97.5-105			

Duplicate (8082817-DUP1)		Source: H802400-01		Prepared & Analyzed: 29-Aug-18						
Ignitability	>140	50.0	°F		ND				20	

Batch 8100809 - General Prep - Wet Chem

LCS (8100809-BS1)		Prepared & Analyzed: 08-Oct-18								
pH	7.08		pH Units	7.00		101	90-110			

Duplicate (8100809-DUP1)		Source: H802840-01		Prepared & Analyzed: 08-Oct-18						
pH	8.12	0.100	pH Units		7.98			1.74	20	

Batch 8101001 - General Prep - Wet Chem

Blank (8101001-BLK1)		Prepared & Analyzed: 11-Oct-18								
Reactive Cyanide	ND	0.100	mg/kg							
Reactive Sulfide	ND	0.0100	mg/kg							

Duplicate (8101001-DUP1)		Source: H802840-01		Prepared & Analyzed: 11-Oct-18						
Reactive Cyanide	ND	0.100	mg/kg		ND				20	
Reactive Sulfide	0.0700	0.0100	mg/kg		0.0400			54.5	20	QR-03

Batch 8101010 - General Prep - Wet Chem

Blank (8101010-BLK1)		Prepared & Analyzed: 10-Oct-18								
Chloride	ND	16.0	mg/kg							

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE 505 NORTH BIG SPRINGS ST STE. 600 MIDLAND TX, 79701	Project: STRATOJET 31 #2H Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 18-Oct-18 14:47
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8101010 - General Prep - Wet Chem

LCS (8101010-BS1)		Prepared & Analyzed: 10-Oct-18								
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (8101010-BSD1)		Prepared & Analyzed: 10-Oct-18								
Chloride	464	16.0	mg/kg	400		116	80-120	3.51	20	

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE
505 NORTH BIG SPRINGS ST STE. 600
MIDLAND TX, 79701

Project: STRATOJET 31 #2H
Project Number: NONE GIVEN
Project Manager: JOEL LOWRY
Fax To:

Reported:
18-Oct-18 14:47

TCLP Volatile Organic Compounds by GCMS - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8100905 - Volatiles**Blank (8100905-BLK1)**

Prepared & Analyzed: 09-Oct-18

Benzene	ND	0.000500	mg/L							
Surrogate: Dibromofluoromethane	0.00972		mg/L	0.0100		97.2	92.9-119			
Surrogate: Toluene-d8	0.00994		mg/L	0.0100		99.4	86-108			
Surrogate: 4-Bromofluorobenzene	0.00984		mg/L	0.0100		98.4	81.7-121			

LCS (8100905-BS1)

Prepared & Analyzed: 09-Oct-18

Benzene	0.0194	0.000500	mg/L	0.0200		97.2	80.5-129			
Surrogate: Dibromofluoromethane	0.00994		mg/L	0.0100		99.4	92.9-119			
Surrogate: Toluene-d8	0.00993		mg/L	0.0100		99.3	86-108			
Surrogate: 4-Bromofluorobenzene	0.0103		mg/L	0.0100		103	81.7-121			

LCS Dup (8100905-BSD1)

Prepared & Analyzed: 09-Oct-18

Benzene	0.0198	0.000500	mg/L	0.0200		99.2	80.5-129	1.99	6.66	
Surrogate: Dibromofluoromethane	0.0102		mg/L	0.0100		102	92.9-119			
Surrogate: Toluene-d8	0.0100		mg/L	0.0100		100	86-108			
Surrogate: 4-Bromofluorobenzene	0.0101		mg/L	0.0100		101	81.7-121			

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Analytical Results For:

PLAINS ALL AMERICAN PIPELINE 505 NORTH BIG SPRINGS ST STE. 600 MIDLAND TX, 79701	Project: STRATOJET 31 #2H Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 18-Oct-18 14:47
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TCLP Metals by ICP (1311) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B810120 - EPA 1311

Blank (B810120-BLK1)

Prepared: 12-Oct-18 Analyzed: 15-Oct-18

Arsenic	ND	0.500	mg/L							
Selenium	ND	0.500	mg/L							
Silver	ND	0.250	mg/L							
Barium	ND	0.250	mg/L							
Chromium	ND	0.250	mg/L							
Lead	ND	0.500	mg/L							
Cadmium	ND	0.250	mg/L							

LCS (B810120-BS1)

Prepared: 12-Oct-18 Analyzed: 15-Oct-18

Lead	10.2	0.500	mg/L	10.0		102	85-115			
Chromium	10.3	0.250	mg/L	10.0		103	85-115			
Silver	0.553	0.250	mg/L	0.500		111	85-115			
Cadmium	10.2	0.250	mg/L	10.0		102	85-115			
Selenium	40.4	0.500	mg/L	40.0		101	85-115			
Barium	10.2	0.250	mg/L	10.0		102	85-115			
Arsenic	21.4	0.500	mg/L	20.0		107	85-115			

LCS Dup (B810120-BSD1)

Prepared: 12-Oct-18 Analyzed: 15-Oct-18

Arsenic	21.5	0.500	mg/L	20.0		108	85-115	0.346	20	
Selenium	40.7	0.500	mg/L	40.0		102	85-115	0.783	20	
Barium	10.3	0.250	mg/L	10.0		103	85-115	1.02	20	
Cadmium	10.2	0.250	mg/L	10.0		102	85-115	0.896	20	
Chromium	10.5	0.250	mg/L	10.0		105	85-115	1.13	20	
Lead	10.3	0.500	mg/L	10.0		103	85-115	0.836	20	
Silver	0.555	0.250	mg/L	0.500		111	85-115	0.453	20	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

PLAINS ALL AMERICAN PIPELINE 505 NORTH BIG SPRINGS ST STE. 600 MIDLAND TX, 79701	Project: STRATOJET 31 #2H Project Number: NONE GIVEN Project Manager: JOEL LOWRY Fax To:	Reported: 18-Oct-18 14:47
--	---	------------------------------

TCLP Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B810122 - EPA 245.1/7470

Blank (B810122-BLK1)

Prepared: 12-Oct-18 Analyzed: 15-Oct-18

Mercury	ND	0.0002	mg/L							
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LCS (B810122-BS1)

Prepared: 12-Oct-18 Analyzed: 15-Oct-18

Mercury	0.0051	0.0002	mg/L	0.00500		102	85-115			
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LCS Dup (B810122-BSD1)

Prepared: 12-Oct-18 Analyzed: 15-Oct-18

Mercury	0.0053	0.0002	mg/L	0.00500		105	85-115	2.99	20	
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Notes and Definitions

Z-01d	FAILED
Z-01c	0.64 ± 0.02
Z-01b	0.44 ± 0.02
Z-01a	0.20 ± 0.01
Z-01	>140
SUB-RS	Analysis subcontracted to Radiation Safety Engineering, Inc.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
A-01	Sample is dry soil with no visible liquid.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

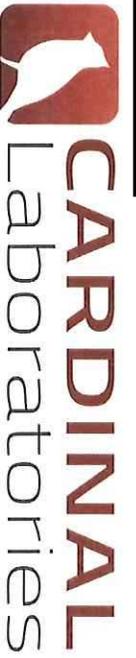
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: TRC Solutions		P.O. #:	
Project Manager: Joel Lowry		Company: Plains	
Address: 10 Desta Drive Suite 150E		Attn: Amber Lewis	
City: Midland	State: TX zip: 79705	Address:	
Phone #: 432-466-4450	Fax #:	City:	
Project #:	Project Owner:	State:	
Project Name: Straljet 31 #2H		Zip:	
Project Location:		Phone #:	
Sampler Name: Kyle Schaidt		Fax #:	
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS
A1802840	1 WC		3
		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER :	
		ACID/BASE:	
		ICE / COOL	
		OTHER :	
		DATE	DATE
		10-5-18	10-5-18
		TIME	TIME
		14:50	14:50
Relinquished By: <i>[Signature]</i> Date: 10-5-18 Time: 10-5-18		Received By: <i>[Signature]</i> Date: 10-5-18 Time: 10-5-18	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: 1.6i #47		Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	
CHECKED BY: <i>[Signature]</i>		CHECKED BY: <i>[Signature]</i>	
REMARKS: jlowry@trcsolutions.com zbondar@trcsolutions.com bcooper@trcsolutions.com		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Add'l Fax #: _____	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 13, 2018

ZACH CONDER

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: STRATOJET 31 STATE COM 6H

Enclosed are the results of analyses for samples received by the laboratory on 11/02/18 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FL - 1 @ 2'	H803148-01	Soil	02-Nov-18 09:00	02-Nov-18 15:00
WALL - 1 @ 1'	H803148-02	Soil	02-Nov-18 09:10	02-Nov-18 15:00
FL - 2 @ 4'	H803148-03	Soil	02-Nov-18 09:20	02-Nov-18 15:00
WALL - 2 @ 2'	H803148-04	Soil	02-Nov-18 09:30	02-Nov-18 15:00
FL - 3 @ 2'	H803148-05	Soil	02-Nov-18 09:40	02-Nov-18 15:00
WALL - 3 @ 1'	H803148-06	Soil	02-Nov-18 09:50	02-Nov-18 15:00
FL - 4 @ 3'	H803148-07	Soil	02-Nov-18 10:00	02-Nov-18 15:00
WALL - 4 @ 1.5'	H803148-08	Soil	02-Nov-18 10:10	02-Nov-18 15:00
FL - 5 @ 4'	H803148-09	Soil	02-Nov-18 10:20	02-Nov-18 15:00
WALL - 5 @ 2'	H803148-10	Soil	02-Nov-18 10:30	02-Nov-18 15:00
FL - 6 @ 2'	H803148-11	Soil	02-Nov-18 10:40	02-Nov-18 15:00
WALL - 6 @ 1'	H803148-12	Soil	02-Nov-18 10:50	02-Nov-18 15:00

Project name changed from Cabra Nino to Stratojet 31 State Com 6H as per Brian Cooper via email 11/13/18. This is a revised report reflecting those changes replacing the original report sent on 11/08/18.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

FL - 1 @ 2'
H803148-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	8110712	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	69.8-142		8110702	MS	07-Nov-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	19.9		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
Surrogate: 1-Chlorooctane			82.0 %	41-142		8110503	MS	05-Nov-18	8015B	
Surrogate: 1-Chlorooctadecane			84.8 %	37.6-147		8110503	MS	05-Nov-18	8015B	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

WALL - 1 @ 1'**H803148-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	400		16.0	mg/kg	4	8110712	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.8-142		8110702	MS	07-Nov-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	48.2		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.4 %	41-142		8110503	MS	05-Nov-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.4 %	37.6-147		8110503	MS	05-Nov-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

FL - 2 @ 4'
H803148-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	8110712	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	16.5		1.00	mg/kg	1000	8110702	MS	07-Nov-18	8021B	
Toluene*	105		1.00	mg/kg	1000	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	55.1		1.00	mg/kg	1000	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	121		3.00	mg/kg	1000	8110702	MS	07-Nov-18	8021B	
Total BTEX	298		6.00	mg/kg	1000	8110702	MS	07-Nov-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 120 % 69.8-142 8110702 MS 07-Nov-18 8021B

Petroleum Hydrocarbons by GC FID**S-06**

GRO C6-C10*	1810		50.0	mg/kg	5	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	5940		50.0	mg/kg	5	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	843		50.0	mg/kg	5	8110503	MS	05-Nov-18	8015B	

Surrogate: 1-Chlorooctane 168 % 41-142 8110503 MS 05-Nov-18 8015B

Surrogate: 1-Chlorooctadecane 272 % 37.6-147 8110503 MS 05-Nov-18 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

WALL - 2 @ 2'**H803148-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	448		16.0	mg/kg	4	8110712	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	0.109		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	0.219		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	0.328		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			113 %	69.8-142		8110702	MS	07-Nov-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	213		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	46.9		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			90.5 %	41-142		8110503	MS	05-Nov-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	37.6-147		8110503	MS	05-Nov-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

FL - 3 @ 2'
H803148-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	8110712	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021**S-04**

Benzene*	<0.100		0.100	mg/kg	100	8110702	MS	08-Nov-18	8021B	
Toluene*	0.588		0.100	mg/kg	100	8110702	MS	08-Nov-18	8021B	
Ethylbenzene*	<0.100		0.100	mg/kg	100	8110702	MS	08-Nov-18	8021B	
Total Xylenes*	14.7		0.300	mg/kg	100	8110702	MS	08-Nov-18	8021B	
Total BTEX	15.3		0.600	mg/kg	100	8110702	MS	08-Nov-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 152 % 69.8-142 8110702 MS 08-Nov-18 8021B

Petroleum Hydrocarbons by GC FID**S-04**

GRO C6-C10*	312		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	2570		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	420		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	

Surrogate: 1-Chlorooctane 110 % 41-142 8110503 MS 05-Nov-18 8015B

Surrogate: 1-Chlorooctadecane 164 % 37.6-147 8110503 MS 05-Nov-18 8015B

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705	Project: STRATOJET 31 STATE COM 6H Project Number: NONE GIVEN Project Manager: ZACH CONDER Fax To:	Reported: 13-Nov-18 11:47
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**WALL - 3 @ 1'
H803148-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	608		16.0	mg/kg	4	8110712	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %		69.8-142	8110702	MS	07-Nov-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	308		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	74.9		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			76.8 %		41-142	8110503	MS	05-Nov-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.7 %		37.6-147	8110503	MS	05-Nov-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

FL - 4 @ 3'
H803148-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	8110512	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	0.107		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	1.15		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	1.25		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			133 %	69.8-142		8110702	MS	07-Nov-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	11.3		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	328		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	54.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.9 %	41-142		8110503	MS	05-Nov-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			101 %	37.6-147		8110503	MS	05-Nov-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705	Project: STRATOJET 31 STATE COM 6H Project Number: NONE GIVEN Project Manager: ZACH CONDER Fax To:	Reported: 13-Nov-18 11:47
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**WALL - 4 @ 1.5'
H803148-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	8110512	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	69.8-142		8110702	MS	07-Nov-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			83.6 %	41-142		8110503	MS	05-Nov-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.9 %	37.6-147		8110503	MS	05-Nov-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705	Project: STRATOJET 31 STATE COM 6H Project Number: NONE GIVEN Project Manager: ZACH CONDER Fax To:	Reported: 13-Nov-18 11:47
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FL - 5 @ 4'
H803148-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	16.0		16.0	mg/kg	4	8110512	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

S-04

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	0.124		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	2.30		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	2.43		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			172 %		69.8-142	8110702	MS	07-Nov-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	30.7		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	519		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	72.9		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			89.5 %		41-142	8110503	MS	05-Nov-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			105 %		37.6-147	8110503	MS	05-Nov-18	8015B	
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Analytical Results For:

TRC 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705	Project: STRATOJET 31 STATE COM 6H Project Number: NONE GIVEN Project Manager: ZACH CONDER Fax To:	Reported: 13-Nov-18 11:47
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**WALL - 5 @ 2'
H803148-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	128		16.0	mg/kg	4	8110512	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	0.194		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %	69.8-142		8110702	MS	07-Nov-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	11.7		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
DRO >C10-C28*	299		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	
EXT DRO >C28-C36	49.1		10.0	mg/kg	1	8110503	MS	05-Nov-18	8015B	

Surrogate: 1-Chlorooctane			90.0 %	41-142		8110503	MS	05-Nov-18	8015B	
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Surrogate: 1-Chlorooctadecane			102 %	37.6-147		8110503	MS	05-Nov-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705	Project: STRATOJET 31 STATE COM 6H Project Number: NONE GIVEN Project Manager: ZACH CONDER Fax To:	Reported: 13-Nov-18 11:47
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FL - 6 @ 2'
H803148-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	8110512	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	69.8-142		8110702	MS	07-Nov-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8110607	MS	06-Nov-18	8015B	
DRO >C10-C28*	24.7		10.0	mg/kg	1	8110607	MS	06-Nov-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8110607	MS	06-Nov-18	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.0 %	41-142		8110607	MS	06-Nov-18	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			86.7 %	37.6-147		8110607	MS	06-Nov-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

WALL - 6 @ 1'**H803148-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	8110512	AC	07-Nov-18	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8110702	MS	07-Nov-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8110702	MS	07-Nov-18	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			102 %	69.8-142		8110702	MS	07-Nov-18	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8110607	MS	06-Nov-18	8015B	
DRO >C10-C28*	15.6		10.0	mg/kg	1	8110607	MS	06-Nov-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8110607	MS	06-Nov-18	8015B	

Surrogate: 1-Chlorooctane			92.6 %	41-142		8110607	MS	06-Nov-18	8015B	
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Surrogate: 1-Chlorooctadecane			91.8 %	37.6-147		8110607	MS	06-Nov-18	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705	Project: STRATOJET 31 STATE COM 6H Project Number: NONE GIVEN Project Manager: ZACH CONDER Fax To:	Reported: 13-Nov-18 11:47
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8110512 - General Prep - Wet Chem

Blank (8110512-BLK1) Prepared & Analyzed: 05-Nov-18

Chloride	ND	16.0	mg/kg							
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LCS (8110512-BS1) Prepared & Analyzed: 05-Nov-18

Chloride	432	16.0	mg/kg	400		108	80-120			
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LCS Dup (8110512-BSD1) Prepared & Analyzed: 05-Nov-18

Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	
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Batch 8110712 - General Prep - Wet Chem

Blank (8110712-BLK1) Prepared & Analyzed: 07-Nov-18

Chloride	ND	16.0	mg/kg							
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LCS (8110712-BS1) Prepared & Analyzed: 07-Nov-18

Chloride	400	16.0	mg/kg	400		100	80-120			
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LCS Dup (8110712-BSD1) Prepared & Analyzed: 07-Nov-18

Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 8110702 - Volatiles**Blank (8110702-BLK1)**

Prepared & Analyzed: 07-Nov-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/kg	0.100		102	69.8-142			

LCS (8110702-BS1)

Prepared & Analyzed: 07-Nov-18

Benzene	1.81	0.050	mg/kg	2.00		90.4	74.5-124			
Toluene	1.87	0.050	mg/kg	2.00		93.5	78.8-122			
Ethylbenzene	1.84	0.050	mg/kg	2.00		92.0	78.6-122			
Total Xylenes	5.46	0.150	mg/kg	6.00		90.9	79.7-123			
Surrogate: 4-Bromofluorobenzene (PID)	0.105		mg/kg	0.100		105	69.8-142			

LCS Dup (8110702-BSD1)

Prepared & Analyzed: 07-Nov-18

Benzene	1.85	0.050	mg/kg	2.00		92.3	74.5-124	2.06	15.2	
Toluene	1.85	0.050	mg/kg	2.00		92.4	78.8-122	1.18	15.1	
Ethylbenzene	1.81	0.050	mg/kg	2.00		90.4	78.6-122	1.73	15.4	
Total Xylenes	5.40	0.150	mg/kg	6.00		89.9	79.7-123	1.12	15.2	
Surrogate: 4-Bromofluorobenzene (PID)	0.102		mg/kg	0.100		102	69.8-142			

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705

Project: STRATOJET 31 STATE COM 6H
Project Number: NONE GIVEN
Project Manager: ZACH CONDER
Fax To:

Reported:
13-Nov-18 11:47

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8110503 - General Prep - Organics**Blank (8110503-BLK1)**

Prepared & Analyzed: 05-Nov-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.6		mg/kg	50.0		89.3	41-142			
Surrogate: 1-Chlorooctadecane	42.3		mg/kg	50.0		84.5	37.6-147			

LCS (8110503-BS1)

Prepared & Analyzed: 05-Nov-18

GRO C6-C10	184	10.0	mg/kg	200		92.2	76.5-133			
DRO >C10-C28	208	10.0	mg/kg	200		104	72.9-138			
Total TPH C6-C28	393	10.0	mg/kg	400		98.2	78-132			
Surrogate: 1-Chlorooctane	45.7		mg/kg	50.0		91.3	41-142			
Surrogate: 1-Chlorooctadecane	44.7		mg/kg	50.0		89.3	37.6-147			

LCS Dup (8110503-BSD1)

Prepared & Analyzed: 05-Nov-18

GRO C6-C10	190	10.0	mg/kg	200		94.9	76.5-133	2.91	20.6	
DRO >C10-C28	212	10.0	mg/kg	200		106	72.9-138	1.90	20.6	
Total TPH C6-C28	402	10.0	mg/kg	400		101	78-132	2.37	18	
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.3	41-142			
Surrogate: 1-Chlorooctadecane	45.5		mg/kg	50.0		91.0	37.6-147			

Batch 8110607 - General Prep - Organics**Blank (8110607-BLK1)**

Prepared & Analyzed: 06-Nov-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.5	41-142			
Surrogate: 1-Chlorooctadecane	46.3		mg/kg	50.0		92.6	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC 10 DESTA DR. SUITE 150 E MIDLAND TX, 79705	Project: STRATOJET 31 STATE COM 6H Project Number: NONE GIVEN Project Manager: ZACH CONDER Fax To:	Reported: 13-Nov-18 11:47
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 8110607 - General Prep - Organics

LCS (8110607-BS1)		Prepared & Analyzed: 06-Nov-18								
GRO C6-C10	188	10.0	mg/kg	200		94.2	76.5-133			
DRO >C10-C28	207	10.0	mg/kg	200		103	72.9-138			
Total TPH C6-C28	395	10.0	mg/kg	400		98.8	78-132			
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.3	41-142			
Surrogate: 1-Chlorooctadecane	46.5		mg/kg	50.0		93.0	37.6-147			
LCS Dup (8110607-BSD1)		Prepared & Analyzed: 06-Nov-18								
GRO C6-C10	194	10.0	mg/kg	200		96.8	76.5-133	2.63	20.6	
DRO >C10-C28	212	10.0	mg/kg	200		106	72.9-138	2.70	20.6	
Total TPH C6-C28	406	10.0	mg/kg	400		101	78-132	2.66	18	
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.7	41-142			
Surrogate: 1-Chlorooctadecane	47.3		mg/kg	50.0		94.6	37.6-147			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celest D. Keene

Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Page 2

BILL TO

ANALYSIS REQUEST

Company Name: TRC Solutions

Project Manager: ~~██████████~~ Zach Cosser

Address: 10 Desta Drive Suite 150E

City: Midland State: TX zip: 79705

Phone #: ~~██████████~~ 806-784-5943

Project #: ~~██████████~~ Project Owner: P. Rains

Project Name: ~~ASAP~~ Stratoyt-31 Site

Project Location: LEA Co, DM

Sample Name: ~~██████████~~ Cont

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	BTEX	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :							
H803148	FL-1@2'	C	1	X							11-2-08	9:00	X	X	X	
	DAU-1@1'	C	1	X								9:10	X	X	X	
	FL-2@4'	C	1	X								9:20	X	X	X	
	DAU-2@2'	C	1	X								9:30	X	X	X	
	FL-3@2'	C	1	X								9:40	X	X	X	
	DAU-3@1'	C	1	X								9:50	X	X	X	
	FL-4@3'	C	1	X								10:00	X	X	X	
	DAU-4@1 1/2'	C	1	X								10:10	X	X	X	
	FL-5@4'	C	1	X								10:20	X	X	X	
	DAU-5@2'	C	1	X								10:30	X	X	X	

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Relinquished By: *[Signature]* Date: 11/21/08 Time: 13:00

Received By: *[Signature]*

Delivered By: (Circle One) UPS Bus Other: 5.22e/#97

Sample Condition: Cool Intact Yes No

CHECKED BY: *[Signature]*

REMARKS:

REMARKS: Z COSIDER @ TRC SOLUTIONS.COM
B COOPER @ TRC SOLUTIONS.COM
B BRAZIFFIN @ TRC SOLUTIONS.COM
A L GROVES @ PAALP.COM

* Project name changes per Brian. 11/13/08



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

20F2

BILL TO

ANALYSIS REQUEST

Company Name: TRC Solutions
 Project Manager: ZACH COOPER
 Address: 10 Desta Drive Suite 150E
 City: Midland State: TX Zip: 79705
 Phone #: 806-724-5943
 Project #: [Redacted] Project Owner: PLATINUM
 Project Name: CABERLAND *STRADY 31 STATE
 Project Location: LEA Co, NM Corbett
 P.O. #: [Redacted]
 Company: PLATINUM
 Attn: AMBERGROVES
 Address: [Redacted]
 City: [Redacted] State: [Redacted] Zip: [Redacted]
 Phone #: [Redacted] Fax #: [Redacted]

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	B.P.E.	TPH	CHLORIDES
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER					
H80348	FL-0 @ 2'	C1	1			X				11-2-18	10:40	X	X	X
	12 WALL-6 @ 1'	C1	1			X				11-2-18	10:50	X	X	X

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Relinquished By: [Signature]
 Date: 11/2/18
 Received By: [Signature]
 Date: 15:00

Delivered By: (Circle One) UPS - Bus - Other: 5:20 / #97
 Sample Condition: Intact Cool Yes No

Checked By: [Signature]
 Remarks: Z COOPER @ TRCSOLUTIONS.COM
 B COOPER @ TRCSOLUTIONS.COM
 BRADIFFIN @ TRCSOLUTIONS.COM
 AL GROVES @ PALM.COM
 * phone change as per Brian 11/3/18

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 28, 2018

ZACH CONDER

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: STRATOJET 31 STATE COM #006H

Enclosed are the results of analyses for samples received by the laboratory on 11/15/18 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
ZACH CONDER
10 DESTA DR. SUITE 150 E
MIDLAND TX, 79705
Fax To:

Received:	11/15/2018	Sampling Date:	11/15/2018
Reported:	11/28/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F- 2 @ 5' (H803327-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	66.1	5.00	11/20/2018	ND	1.82	91.1	2.00	1.63	QM-07	
Toluene*	329	5.00	11/20/2018	ND	1.80	90.2	2.00	1.24	QM-07	
Ethylbenzene*	155	5.00	11/20/2018	ND	1.81	90.6	2.00	0.430	QM-07	
Total Xylenes*	287	15.0	11/20/2018	ND	5.45	90.8	6.00	0.780	QM-07	
Total BTEX	836	30.0	11/20/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/16/2018	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	4850	50.0	11/16/2018	ND	225	112	200	13.4			
DRO >C10-C28*	10300	50.0	11/16/2018	ND	239	119	200	12.0			
EXT DRO >C28-C36	1450	50.0	11/16/2018	ND							

Surrogate: 1-Chlorooctane 308 % 41-142

Surrogate: 1-Chlorooctadecane 191 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC
 ZACH CONDER
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

Received:	11/15/2018	Sampling Date:	11/15/2018
Reported:	11/28/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F- 2 @ 6' (H803327-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	52.9	5.00	11/20/2018	ND	1.82	91.1	2.00	1.63	
Toluene*	242	5.00	11/20/2018	ND	1.80	90.2	2.00	1.24	
Ethylbenzene*	86.2	5.00	11/20/2018	ND	1.81	90.6	2.00	0.430	
Total Xylenes*	231	15.0	11/20/2018	ND	5.45	90.8	6.00	0.780	
Total BTEX	613	30.0	11/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	5320	50.0	11/16/2018	ND	225	112	200	13.4		
DRO >C10-C28*	11000	50.0	11/16/2018	ND	239	119	200	12.0		
EXT DRO >C28-C36	1590	50.0	11/16/2018	ND						

Surrogate: 1-Chlorooctane 322 % 41-142

Surrogate: 1-Chlorooctadecane 456 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
 ZACH CONDER
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

Received:	11/15/2018	Sampling Date:	11/15/2018
Reported:	11/28/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F- 2 @ 7' (H803327-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	66.6	1.00	11/26/2018	ND	2.01	100	2.00	2.22	
Toluene*	310	1.00	11/26/2018	ND	1.95	97.6	2.00	2.47	
Ethylbenzene*	92.9	1.00	11/26/2018	ND	1.89	94.3	2.00	3.14	
Total Xylenes*	258	3.00	11/26/2018	ND	5.68	94.7	6.00	3.48	
Total BTEX	727	6.00	11/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/28/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4400	50.0	11/26/2018	ND	217	109	200	0.306		
DRO >C10-C28*	9270	50.0	11/26/2018	ND	223	112	200	1.28		
EXT DRO >C28-C36	1610	50.0	11/26/2018	ND						

Surrogate: 1-Chlorooctane 220 % 41-142

Surrogate: 1-Chlorooctadecane 352 % 37.6-147

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
 ZACH CONDER
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

Received:	11/15/2018	Sampling Date:	11/15/2018
Reported:	11/28/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F- 2 @ 8' (H803327-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	25.1	1.00	11/26/2018	ND	2.01	100	2.00	2.22	
Toluene*	160	1.00	11/26/2018	ND	1.95	97.6	2.00	2.47	
Ethylbenzene*	68.9	1.00	11/26/2018	ND	1.89	94.3	2.00	3.14	
Total Xylenes*	141	3.00	11/26/2018	ND	5.68	94.7	6.00	3.48	
Total BTEX	395	6.00	11/26/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/28/2018	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	2900	50.0	11/26/2018	ND	217	109	200	0.306		
DRO >C10-C28*	6260	50.0	11/26/2018	ND	223	112	200	1.28		
EXT DRO >C28-C36	1040	50.0	11/26/2018	ND						

Surrogate: 1-Chlorooctane 189 % 41-142

Surrogate: 1-Chlorooctadecane 300 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC
 ZACH CONDER
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

Received:	11/15/2018	Sampling Date:	11/15/2018
Reported:	11/28/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F- 3 @ 3' (H803327-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.638	0.100	11/20/2018	ND	1.82	91.1	2.00	1.63	
Toluene*	5.31	0.100	11/20/2018	ND	1.80	90.2	2.00	1.24	
Ethylbenzene*	2.09	0.100	11/20/2018	ND	1.81	90.6	2.00	0.430	
Total Xylenes*	11.6	0.300	11/20/2018	ND	5.45	90.8	6.00	0.780	
Total BTEX	19.6	0.600	11/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	101	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	583	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	97.4	10.0	11/16/2018	ND					

Surrogate: 1-Chlorooctane 115 % 41-142

Surrogate: 1-Chlorooctadecane 116 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRC
 ZACH CONDER
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

Received:	11/15/2018	Sampling Date:	11/15/2018
Reported:	11/28/2018	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F- 3 @ 4' (H803327-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2018	ND	1.82	91.1	2.00	1.63	
Toluene*	0.208	0.050	11/20/2018	ND	1.80	90.2	2.00	1.24	
Ethylbenzene*	0.056	0.050	11/20/2018	ND	1.81	90.6	2.00	0.430	
Total Xylenes*	0.334	0.150	11/20/2018	ND	5.45	90.8	6.00	0.780	
Total BTEX	0.598	0.300	11/20/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/16/2018	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/16/2018	ND	225	112	200	13.4	
DRO >C10-C28*	74.7	10.0	11/16/2018	ND	239	119	200	12.0	
EXT DRO >C28-C36	11.8	10.0	11/16/2018	ND					

Surrogate: 1-Chlorooctane 114 % 41-142

Surrogate: 1-Chlorooctadecane 113 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 13, 2020

CURT STANLEY

TRC

10 DESTA DR. SUITE 150 E

MIDLAND, TX 79705

RE: STRATOJET 31 STATE COM #006H

Enclosed are the results of analyses for samples received by the laboratory on 01/08/20 9:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
 CURT STANLEY
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

Received:	01/08/2020	Sampling Date:	01/06/2020
Reported:	01/13/2020	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	SRS 2018-145	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F - 2 @ 9' (H00058-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2020	ND	2.30	115	2.00	0.987	
Toluene*	<0.050	0.050	01/10/2020	ND	2.29	114	2.00	0.374	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.29	114	2.00	0.102	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.81	114	6.00	0.000119	
Total BTEX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	<10.0	10.0	01/09/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 82.4 % 41-142

Surrogate: 1-Chlorooctadecane 89.5 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
 CURT STANLEY
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

Received:	01/08/2020	Sampling Date:	01/06/2020
Reported:	01/13/2020	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	SRS 2018-145	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F - 2 @ 10' (H000058-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2020	ND	2.30	115	2.00	0.987	
Toluene*	<0.050	0.050	01/10/2020	ND	2.29	114	2.00	0.374	
Ethylbenzene*	<0.050	0.050	01/10/2020	ND	2.29	114	2.00	0.102	
Total Xylenes*	<0.150	0.150	01/10/2020	ND	6.81	114	6.00	0.000119	
Total BTEX	<0.300	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	83.7	10.0	01/09/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	16.9	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 79.1 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
 CURT STANLEY
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

Received:	01/08/2020	Sampling Date:	01/06/2020
Reported:	01/13/2020	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	SRS 2018-145	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F - 2 @ 11' (H000058-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/09/2020	ND	2.09	104	2.00	3.22		
Toluene*	<0.050	0.050	01/09/2020	ND	2.07	104	2.00	3.06		
Ethylbenzene*	<0.050	0.050	01/09/2020	ND	2.11	105	2.00	2.66		
Total Xylenes*	<0.150	0.150	01/09/2020	ND	6.14	102	6.00	2.42		
Total BTEX	<0.300	0.300	01/09/2020	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.3-129

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/09/2020	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/09/2020	ND	191	95.7	200	6.24		
DRO >C10-C28*	100	10.0	01/09/2020	ND	215	107	200	4.95		
EXT DRO >C28-C36	20.6	10.0	01/09/2020	ND						

Surrogate: 1-Chlorooctane 77.6 % 41-142

Surrogate: 1-Chlorooctadecane 86.8 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

TRC
 CURT STANLEY
 10 DESTA DR. SUITE 150 E
 MIDLAND TX, 79705
 Fax To:

Received:	01/08/2020	Sampling Date:	01/06/2020
Reported:	01/13/2020	Sampling Type:	Soil
Project Name:	STRATOJET 31 STATE COM #006H	Sampling Condition:	Cool & Intact
Project Number:	SRS 2018-145	Sample Received By:	Tamara Oldaker
Project Location:	PLAINS-LEA COUNTY, NM		

Sample ID: F - 2 @ 12' (H000058-04)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/10/2020	ND	2.09	104	2.00	3.22	
Toluene*	<0.050	0.050	01/10/2020	ND	2.07	104	2.00	3.06	
Ethylbenzene*	0.176	0.050	01/10/2020	ND	2.11	105	2.00	2.66	
Total Xylenes*	0.891	0.150	01/10/2020	ND	6.14	102	6.00	2.42	
Total BTEX	1.07	0.300	01/10/2020	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/09/2020	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	35.6	10.0	01/09/2020	ND	191	95.7	200	6.24	
DRO >C10-C28*	620	10.0	01/09/2020	ND	215	107	200	4.95	
EXT DRO >C28-C36	152	10.0	01/09/2020	ND					

Surrogate: 1-Chlorooctane 84.7 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

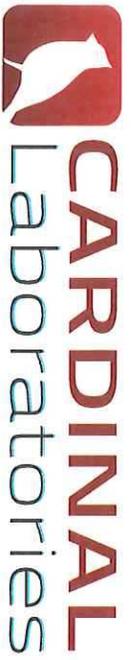
Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Company Name: TRC SUREGUARD
 Project Manager: WAT STAVELY
 Address: 101 BENTLEY STE 1502
 City: MORGAN State: NM Zip: 79705
 Phone #: 132-559-3296 Fax #:
 Project # 625 2018 - H&S Project Owner: PRANIS
 Project Name: STATEWIDE 31 STATE GOV #0047
 Project Location: GEA PROPERTY NM
 Sampler Name: [Signature]
 P.O. #:
 Company: PRANIS
 Attn: AMBER GRAYES
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

FOR LAB USE ONLY	MATRIX	PRESERV	SAMPLING	ANALYSIS REQUEST
(G)RAB OR (C)OMP. <td>GROUNDWATER <td>ACID/BASE: <td>DATE <td>TIME </td></td></td></td>	GROUNDWATER <td>ACID/BASE: <td>DATE <td>TIME </td></td></td>	ACID/BASE: <td>DATE <td>TIME </td></td>	DATE <td>TIME </td>	TIME
# CONTAINERS <td>WASTEWATER <td>ICE / COOL <td></td> <td></td> </td></td>	WASTEWATER <td>ICE / COOL <td></td> <td></td> </td>	ICE / COOL <td></td> <td></td>		
	SOIL <td>OTHER : <td></td> <td></td> </td>	OTHER : <td></td> <td></td>		
	OIL <td>OTHER : <td></td> <td></td> </td>	OTHER : <td></td> <td></td>		
	SLUDGE <td></td> <td></td> <td></td>			
	OTHER : <td></td> <td></td> <td></td>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	ANALYSIS REQUEST
<u>4000058</u>	<u>E-20091</u>	<u>X</u>	<u>1</u>	<u>SOIL</u>	<u>X</u>	<u>1/4</u>	<u>1000</u>
	<u>E-20010</u>	<u>X</u>	<u>1</u>	<u>SOIL</u>	<u>X</u>	<u>1/4</u>	<u>1020</u>
	<u>F-20011</u>	<u>X</u>	<u>1</u>	<u>SOIL</u>	<u>X</u>	<u>1/4</u>	<u>1040</u>
	<u>F-20012</u>	<u>X</u>	<u>1</u>	<u>SOIL</u>	<u>X</u>	<u>1/4</u>	<u>1100</u>
	<u>F-20013</u>	<u>X</u>	<u>1</u>	<u>SOIL</u>	<u>X</u>	<u>1/4</u>	<u>1130</u>

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors, arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 1/10/2020 Received By: [Signature]
 Relinquished By: [Signature] Date: 1-8-20 Received By: [Signature]
 Delivered By: (Circle One) UPS - UPS - Bus - Other: 1.40 #113
 Sample Condition: Cool Intact
 Yes No

CHECKED BY: [Signature] (Initials)
 REMARKS: alvarez@peaks.com
cdstewart@traccompanies.com

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Site Name: **Stratojet State Com #006H**

Date: 11/15/2018

Soil Profile

<i>Description</i>	<i>ft. bgs</i>
	0
Caliche	1
	2
Brown Sand	3
	4
	5
	6
	7
	8
	9
	10
	11
	12
	13
	14
	15
	16



Photo 1 - View of affected area prior to remediation activities, facing West.



Photo 2- View of affected area prior to remediation activities, facing West.



Photo 3 - View of affected area prior to remediation activities, facing Southeast.



Photo 4 - View of affected area prior to remediation activities, facing North.

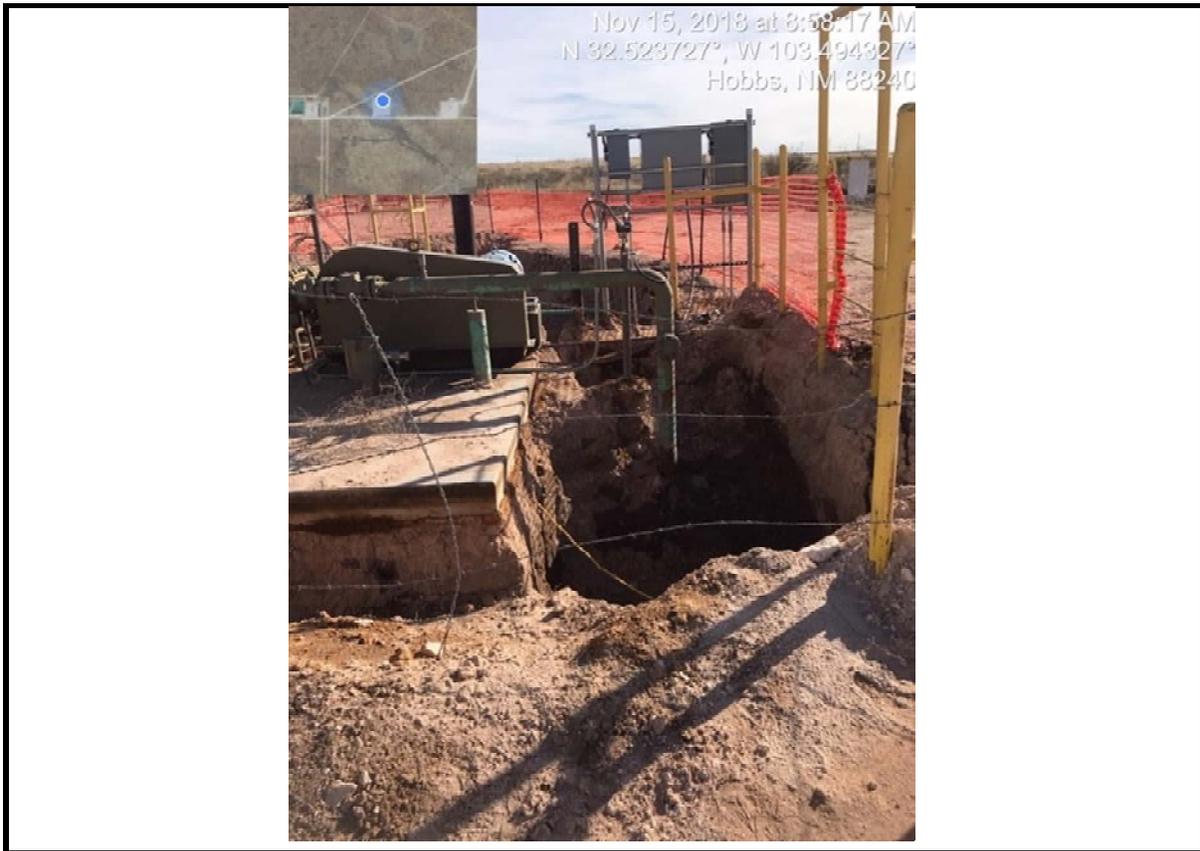


Photo 5 - View of affected area after excavation activities, facing East.



Photo 6 - View of affected area after excavation activities, facing East.



Photo 7 - View of affected area after excavation activities, facing North.



Photo 8 - View of affected area after excavation activities, facing North.



Photo 9 - View of affected area after backfill activities, facing North.



Photo 10 - View of affected area after backfill activities, facing North.



Photo 11 - View of affected area after backfill activities, facing West.



Photo 12 - View of affected area after backfill activities, facing West.

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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nCH1828463241
District RP	1RP-5223
Facility ID	fCH1828462751
Application ID	pCH1828463804

Release Notification

Responsible Party

Responsible Party Plains Pipeline, L.P.	OGRID 713291
Contact Name Amber Groves	Contact Telephone 575-200-5517
Contact email algroves@paalp.com	Incident # NCH1828463241 COG STRATOJET 31 STATE COM @ FCH1828462751vvvv
Contact mailing address 1911 Connie Road, Carlsbad NM 88220	

Location of Release Source

Latitude 32.523582 Longitude -103.494174
(NAD 83 in decimal degrees to 5 decimal places)

Site Name COG Stratojet 31 State Com #006H	Site Type LACT Unit
Date Release Discovered 9/25/2018	API# (if applicable)

Unit Letter	Section	Township	Range	County
O	31	20S	35E	Lea

Surface Owner: State Federal Tribal Private (Name: S&S-Patrick Sims)

State Minerals

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 20 bbls	Volume Recovered (bbls) 15 bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Valve left open by a second party.

Incident ID	nCH1828463241
District RP	1RP-5223
Facility ID	fCH1828462751
Application ID	pCH1828463804

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notification was given to Olivia Yu at NMOCD by phone on 9/26/2018 at 8:01 am.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.
Printed Name: <u>Amber Groves</u> Title: <u>Remediation Coordinator</u> Signature: <u>[Handwritten Signature]</u> Date: <u>10/31/2018</u> email: <u>algroves@paalp.com</u> Telephone: <u>575-200-5517</u>

OCD Only

RECEIVED

Received by: **By CHernandez at 5:19 pm, Oct 11, 2018**

Amber L Groves

From: James L Papstein
Sent: Tuesday, October 02, 2018 7:06 AM
To: Amber L Groves; Michael S Hicks
Cc: Camille J Bryant
Subject: RE: COG Stratojet 31 State Com #002H

20 barrels released, 15 barrels recovered for disposal, 5 barrels lost.

Length	Width	Depth		Volume Barrels
15	8	11	0.0154	20.328

James (Jim) Papstein
Plains All American
432-209-2770

Cooper, Brian

From: Conder, Zachary
Sent: Wednesday, December 19, 2018 3:28 PM
To: Hernandez, Christina, EMNRD
Cc: Amber L Groves (ALGroves@paalp.com)
Subject: 1RP-5223 & 1RP-5157 -December 12th Meeting Summary

Ms. Hernandez,

To summarize our meeting on December 12, 2018, TRC is requesting the deferral of remediation activities at the Plains Pipeline, LP release site known as the Stratojet 31 State Com #006H. The deferral request is based upon avoiding a major site deconstruction in order to complete delineation and remediation. We discussed the issues with the sites equipment within the current excavation and safety concerns of continuing the excavation beyond the current depth. Ms. Hernandez also said she would speak with Mr. Griswold about deferring delineation at the site on the same basis as the deferral for remediation. We also discussed the lone chloride exceedance at Wall-3 with a concentration of 608 mg/kg and requesting this concentration be allowed as a variance to the closure criteria. In addition, we also discussed the work plan submitted for 1RP-5157, Young Deep Koch Historical. A verbal approval to commence remediation was given after discussing the site.

Respectfully,

Zachary Conder
Operations Manager



2771 State Highway 214, Denver City, TX 79323
| C: 432 234 5084

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From: [Amber L Groves](#)
To: [Stanley, Curtis D.](#)
Subject: [EXTERNAL] Fwd: Stratojet 31 State Com #006H NMOCD Ref. No. 1RP-5223
Date: Friday, January 31, 2020 12:35:29 PM

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Sent from my iPhone

Begin forwarded message:

From: "Venegas, Victoria, EMNRD" <Victoria.Venegas@state.nm.us>
Date: November 22, 2019 at 11:58:48 AM MST
To: Amber L Groves <ALGroves@paalp.com>, "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "Griswold, Jim, EMNRD" <Jim.Griswold@state.nm.us>
Cc: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>, "Cooper, Brian (BCooper@trcsolutions.com)" <BCooper@trcsolutions.com>, "Stoffel, Jared" <JStoffel@trccompanies.com>
Subject: Stratojet 31 State Com #006H NMOCD Ref. No. 1RP-5223 [External]

Stratojet 31 State Com #006H NMOCD Ref. No. 1RP-5223

Ms. Groves,

OCD has received your Deferral Request for Stratojet 31 State Com #006H NMOCD Ref. No. **1RP-5223**, thank you. This deferral is DENIED for the following:

- The release has not been fully delineated. By Rule NMAC 19.15.29.12.: "The DEFERRAL may be granted so long as the contamination is fully delineated and does not cause an imminent risk to human health, the environment or ground water"

OCD requests this site be fully delineated to closure standards in Table I of 19.15.29. All samples must be under the limit to verify the spill has been vertically delineated before we can approve a deferral. Lab data needs to be provided as evidence of delineation efforts.

Finally, note this report is incomplete. Anytime we receive a Characterization/Remediation Plan/Deferral Request/Closure Report, we will need the corresponding pages of form C-141 in with the plan.

Regards,

Victoria Venegas
EMNRD
OCD-District II
Artesia NM
Victoria.Venegas@state.nm.us

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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