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	1RP-4879
District RP	Nelson Velez
Facility ID	30-025-43754
Application ID	

Release Notification

Responsible Party

Responsible Party Steward Energy II, LLC	OGRID
Contact Name Bill McMann	Contact Telephone 214-297-0500
Contact email bill.mcmann@stewardenergy.net	Incident # *(assigned by OCD)* nOY1732657426
Contact mailing address 2600 North Dallas Pkwy, Suite 400 Frisco, TX 75034	

Location of Release Source

Latitude 33.1317966 Longitude -103.0981685
(NAD 83 in decimal degrees to 5 decimal places)

Site Name HEISENBERG STATE COM #007H	Site Type Well site
Date Release Discovered 11/20/2017	API# *(if applicable)* 30-025-43754

Unit Letter	Section	Township	Range	County
J	04	14S	38E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* El Ray Salt Co.)

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 80	Volume Recovered (bbls) 80
☒ Produced Water	Volume Released (bbls) 80	Volume Recovered (bbls) 80
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Equipment Failure - Cause of the problem was the 3/8 inch stainless steel nipple on the wellhead failed. Remedial action taken, shut down and shut in well. Closed off location. Made calls as required to report and begin cleanup.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	1RP-4879
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Incident caused an unauthorized release of a volume of greater that 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes, Christopher Wilson, Lead Operator via phone to NMOCD.	

Initial Response

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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Vanessa De Los Santos
Title: Senior Analyst - Regulatory & Environmental

Signature: Vanessa De Los Santos
Date: 9/21/23

email: vanessa.delossantos@stewardenergy.com
Telephone: 214-297-0533

OCD Only

Received by: _____ Date: _____

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	1RP-4879
District RP	Nelson Velez
Facility ID	30-025-43754
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	60 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	1RP-4879
District RP	Nelson Velez
Facility ID	30-025-43754
Application ID	

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: Vanessa De Los Santos Title: Senior Analyst - Regulatory & Environmental

Signature: Vanessa De Los Santos Date: 9/21/23

email: vanessa.delossantos@stewardenergy.com Telephone: 214-297-0533

OCD Only

Received by: Date:

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	1RP-4879
District RP	Nelson Velez
Facility ID	30-025-43754
Application ID	

Remediation Plan

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

- [X] Detailed description of proposed remediation technique
- [X] Scaled sitemap with GPS coordinates showing delineation points
- [X] Estimated volume of material to be remediated
- [X] Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- [X] 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: Vanessa De Los Santos Title: Senior Analyst - Regulatory & Environmental

Signature: Vanessa De Los Santos Date: 9/23/21

email: vanessa.delossantos@stewardenergy.com Telephone: 214-297-0533

OCD Only

Received by: _____ Date: _____

- [ ] Approved
- [ ] Approved with Attached Conditions of Approval
- [ ] Denied
- [ ] Deferral Approved

Signature: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	1RP-4879
District RP	Nelson Velez
Facility ID	30-025-43754
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

[X] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[X] Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

[X] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[X] Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Vanessa De Los Santos Title: Senior Analyst - Regulatory & Environmental

Signature: Vanessa De Los Santos Date: 9/22/23

email: vanessa.delossantos@stewardenergy.com Telephone: 214-297-0533

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Nelson Velez Date: 01/19/2024

Printed Name: Nelson Velez Title: Environmenal Specialist - Adv

September 18, 2023 Sphere 3 Project Number: 049998.00

Mr. Nelson Velez
EMNRD - Oil Conservation Division
1000 Rio Brazos Road
Aztec, New Mexico 87110

RE: Steward Energy II, LLC (Steward)-nOY1732657426 Heisenberg State Com No. 7H
Remediation Results and Closure Request

Dear Mr. Velez:

It is Sphere 3 Environmental's (Sphere 3) understanding from the March 2018 report "Release Characterization Workplan for Heisenberg #007" completed by Remediation & Environmental Xperts, LLC (REX) that on November 20, 2017 at 7:15 am, an unauthorized release of approximately 80 barrels of an oil and produced water mix occurred at the Heisenberg State No. 07H well. The release was reported to New Mexico Energy, Minerals, Natural Resources Department, Oil Conservation Division District 1 (NMOCD) immediately upon discovery by Mr. Christopher Wilson with Steward. The well was shut-in and immediate cleanup efforts began. A vacuum truck was used to recover the entirety of the estimated 80 barrels. The release was primarily restricted to the well pad. A light mist impacted the crop land directly adjacent to the northeast of the well pad. The total impacted area is 16.75 acres, the total offsite impacted area is 16.253 acres. REX conducted site visits in December 2017 and April 2018 to delineate the horizontal and vertical extent of the contaminated area and submitted their findings to the NMOCD. On March 31, 2023, the NMOCD rejected REX's Application ID 202382 for remediation and required additional vertical and horizontal delineation around the areas represented by SP13, SP14, and SP18 (see Site Plan maps). Sphere 3 submitted a workplan for additional delineation at the Heisenberg State Com No. 7H for NMOCD incident nOY1732657426 on May 24, 2023, and it was approved with the addition of several sampling points by Mr. Nelson Velez (NMOCD project contact) on July 6, 2023. On August 23, 2023, 36 samples were collected by Sphere 3 personnel at the Heisenberg State Com No. 07H well pad. Please see the attached site maps for scaled site diagrams. The sample summary table includes Global Positioning System (GPS) coordinates of each sample location and can be found in Attachment E. Laboratory results and chain of custodies can be found in Attachment F.

The sampling activities follow the guidance from Mr. Velez and are in compliance with rule 19.15.29.11.A(5)(b) New Mexico Administrative Code (NMAC) which verifies that the site's delineation sample results are below the 19.15.29.12 NMAC Table 1 Closure Criteria as well as 19.15.29.13 D(1) for the reclamation of areas no longer in use.

Site Assessment and Characterization

Site Classification and Reconnaissance Details

The Site Closure Criteria Determination was found using 19.15.29.12 NMAC Table 1 Closure Criteria for Soils Impacted by a Release. Sphere 3 mapped all recorded water wells found on the New Mexico Office of the State Engineer website as well as the recorded playa lakes and wetlands found in the current National Wetlands Inventory data. No mapped water wells, playa lakes, or wetlands were identified within 1,000

feet of the Heisenberg State Com No. 7H, except water well L 00559 Pod5. However, according to the information collected by REX on their December 1, 2017 site visit, this water well is not actually located within 1,000 feet of the spill area. Aerial imagery places this water well to the southeast outside of the 1,000-foot area of concern.

A water well search was completed on the NMOSE website for the section, township, and range of the facility. The closest water well, based on field reconnaissance, was found to be 1,366' to the southeast of the well pad, identified as L00559 POD5 by the NMOSE. This water well lists the depth to water at 105 feet below ground surface. However, according to REX's March 2018 report "Release Characterization Workplan for Heisenberg #007H", depth to groundwater was determined to be 60.05 feet from the USGS Caprock CRN well. This information was obtained from the USGS National Water Information System: Web interface. Based on this information, the Site Closure Criteria Determination is based on the concentration limit of a site with a minimum depth below groundwater of 51– 100 feet.

Summary of Delineation and Site Assessment Efforts Performed by REX

Samples collected in December 2017 and April 2018 by REX were compared to 19.15.29.12 NMAC Table 1 Closure Criteria for a minimum depth below groundwater of 51– 100 feet as well as 19.15.29.13 D. (1) for the reclamation of areas no longer in use. Sample spots 13, 14, 18, 21 and 22 were found to have concentrations of chloride and/or total petroleum hydrocarbons (TPH) above these limits. A summary of the samples collected by REX and the associated analytical results can be found in Attachment E.

Summary of Delineation and Site Assessment Efforts Performed by Sphere 3

Sphere 3 completed additional delineation around SP 13, SP 14, SP 18, SP 21 and SP 22 which was needed to determine the vertical and horizontal extent of the spill area per 19.15.29.12 NMAC Table 1 Closure Criteria and the 1 to 4 feet below ground surface (bgs) delineation per 19.15.29.13 D(1) concentrations. To determine the extent of contamination, additional samples from 1 to 4 feet bgs were collected at 1-foot intervals. A backhoe was used to advance each sample point to a depth of 4' or until impenetrable rock was encountered and equipment refusal occurred. A shovel was used to remove any soil that might have been in contact with the backhoe prior to collecting the sample for chemical analysis. This shovel was decontaminated prior to the collection of each sample. Since the zero to one foot interval consisted of rock and caliche, soil sampling began at the one-foot interval where soil was encountered. Equipment refusal occurred as follows: sample point 25 at 29" bgs; sample point 26 at 36" bgs; sample point 27 at 42" bgs; sample point 28 at 32" bgs; sample point 29 at 32" bgs; sample point 30 at 36" bgs; sample point 32 at 36" bgs; sample point 33 at 36" bgs; and sample point 34 at 36" bgs.

Sample points SP 27, SP 32, and SP 33 were collected to the east, west, and south of sample point 13 (Spot #13) and were analyzed for chlorides and TPH. Sample points SP 31 and SP 34 were collected to the west and south of sample point 14 (Spot #14) and were analyzed for TPH. Sample points SP 24, SP 25, SP 26, and SP 28 were collected to the north, east, west, and south of sample point 18 (Spot #18) and were analyzed for chlorides. Sample points SP 32 and SP 22 were collected to the west and south of sample point 22 (SP22) and analyzed for chlorides and TPH. Sample points SP 29 and SP 30 were collected to the northeast and south of sample point 21 (SP22) and were analyzed for chlorides.

Each sample was screened for volatile organic vapors (VOCs) using a Photo Ionization Detector (PID) and for chlorides using sodium chloride strips. None of the field screening readings yielded elevated results above a 10-ppm reading from the PID or above a 1,500-ppm reading from the chloride strips. Disposable nitrile gloves were used to collect each sample. The gloves were disposed of after each sample had been collected, and new gloves were donned for the next sample. All samples were collected in laboratory

supplied sample containers and placed on ice in a cooler. The cooler was hand-delivered to Cardinal Laboratories in Hobbs, NM for analysis on August 23, 2023.

None of the analytical results from samples collected on August 23, 2023 were above 19.15.29.12 NMAC Table 1 Closure Criteria for a minimum depth below groundwater of 51– 100 feet or above 19.15.29.13 D(1) for the reclamation of areas no longer in use concentrations. A summary of the analytical results from the samples collected by Sphere 3 can be found in Attachment E; laboratory results and chain of custodies can be found in Attachment F.

Remediation Activities

Delineation and remediation of the well site was completed per 19.15.29.13 D(1) for reclamation of areas no longer in use through the first four feet and per 19.15.29.12 NMAC Table 1 Closure Criteria for a minimum depth below groundwater of 51– 100 feet. Prior to remediation activities, permission from Mr. Velez was obtained to use the laboratory results from delineation points toward closure.

Steward removed and disposed of contaminated soil above 19.15.29.12 NMAC Table 1 Closure Criteria for a minimum depth below groundwater of 51– 100 feet concentrations at the Heisenberg State Com No. 07H well pad for all soils at four feet bgs or deeper and contaminated soil above 19.15.29.13 D(1) for the reclamation of areas no longer in use concentrations for the first four feet of soil.

The two-day district notification was sent to Mr. Velez on September 8, 2023. Excavation started September 13, 2023, and was completed on September 15, 2023. Rain had pooled in the excavation area prior to the remediation activities. A vacuum truck was called to remove the rainwater from the area. Approximately 25-bbls of rainwater was removed by Salty Dawg Trucking for disposal. Approximately 2,080 cubic yards of soil were removed and disposed of at Gandy Marley located in Roswell, NM. The excavation was completed by a track hoe and removed soil was placed directly into trucks for transportation to the disposal facility. Excavation around an active wellhead flow line, active electrical line and anchor points was not conducted due to safety concerns.

During the excavation, soil was periodically screened using a PID and chloride strips. No elevated levels of field screened parameters were encountered except for within the southeastern excavation area. Stained soil exhibiting an TPH odor was encountered around sampling point CS-5. The area was grided off and the soil was screen throughout this area. Any soil with elevated screening results were removed. Five-point composite samples within a 400 square feet area were collected in the areas that had laboratory results which previously exceeded the reclamation closure standards (CS 1, CS 2, CS 3, CS 4, and CS 6) and the area where stained soils were encountered (CS 5). The area around CS 1, CS 2, CS 4, CS 5, and CS 6 were excavated to a depth of four feet below the ground surface. The area around CS 3 and between sample points 22 and 27, 21 and 29, 30 and 17, respectively, were excavated to a depth of one-foot bgs.

Five-point composite closure samples were collected within a 400 square foot area of delineation samples points that yielded elevated concentrations of TPH and/or chlorides (sample points 13, 14, 18, 21 and 22) as well as an additional area of stained soil (CS 6). A shovel was used to remove any soil that might have been in contact with the backhoe prior to collecting the sample for chemical analysis. This shovel was decontaminated prior to the collection of each sample. Each sample was screened for VOCs using a PID and for chlorides using sodium chloride strips. None of the field screening readings yielded elevated results above a 10-ppm reading from the PID or above a 1,500-ppm reading from the chloride strips. Disposable nitrile gloves were used to collect each sample. The gloves were disposed of after each sample had been collected, and new gloves were donned for the next sample. All samples were collected in laboratory supplied sample containers and placed on ice in a cooler. The cooler was hand-delivered to Cardinal Laboratories in Hobbs, NM for analysis for chlorides and TPH on September 15, 2023.

Composite samples CS 1, CS 2, CS 4, CS 5, and CS 6 (from four feet bgs) yielded results below 19.15.29.12 NMAC Table 1 Closure Criteria for a minimum depth below groundwater of 51– 100 feet and result from CS 3 (from one foot bgs) yielded results below 19.15.29.13 D (1) for reclamation of areas no longer in use. A summary of the analytical results from the samples collected by Sphere 3 can be found in Attachment E; laboratory results and chain of custodies can be found in Attachment F. Photos of the excavated areas can be found in Attachment D.

Request for Closure

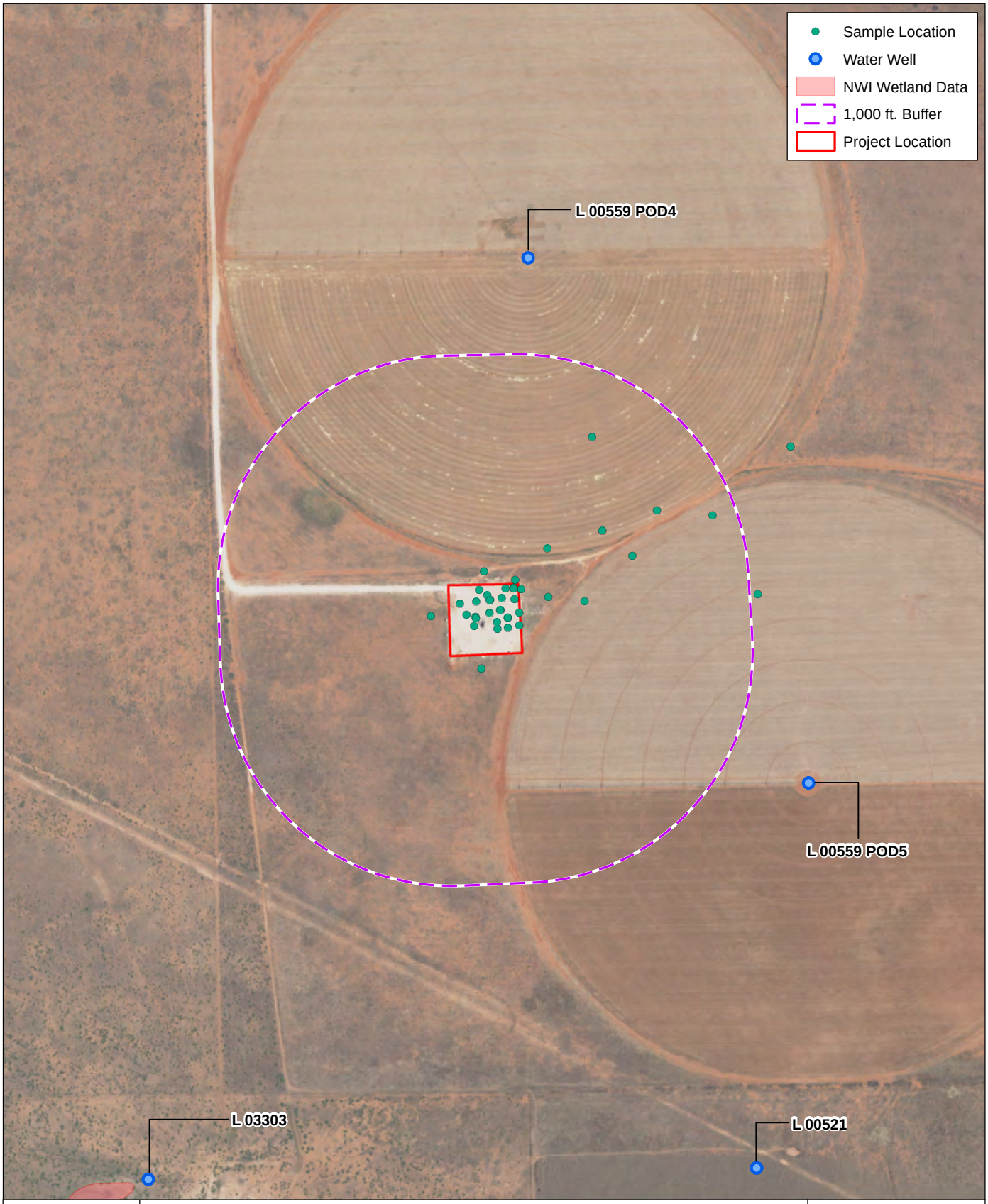
Approval to back fill the excavation area was received from Mr. Velez on September 18, 2023. Steward back filled all excavated areas with clean dirt on September 19th and 20th. Steward respectfully requests closure for incident nOY1732657426 Heisenberg State Com No. 7H. Should you have any questions or require any additional information, please call me at 903-297-4673.

Sincerely,

Sphere 3 Environmental, Inc.
Crissy Forrest, P.G.
Senior Environmental Scientist

Attachments

Attachment A
Aerial Map of Area Findings



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SITE PLAN
Heisenberg State Com No. 7 Aerial Review
Lea County, NM

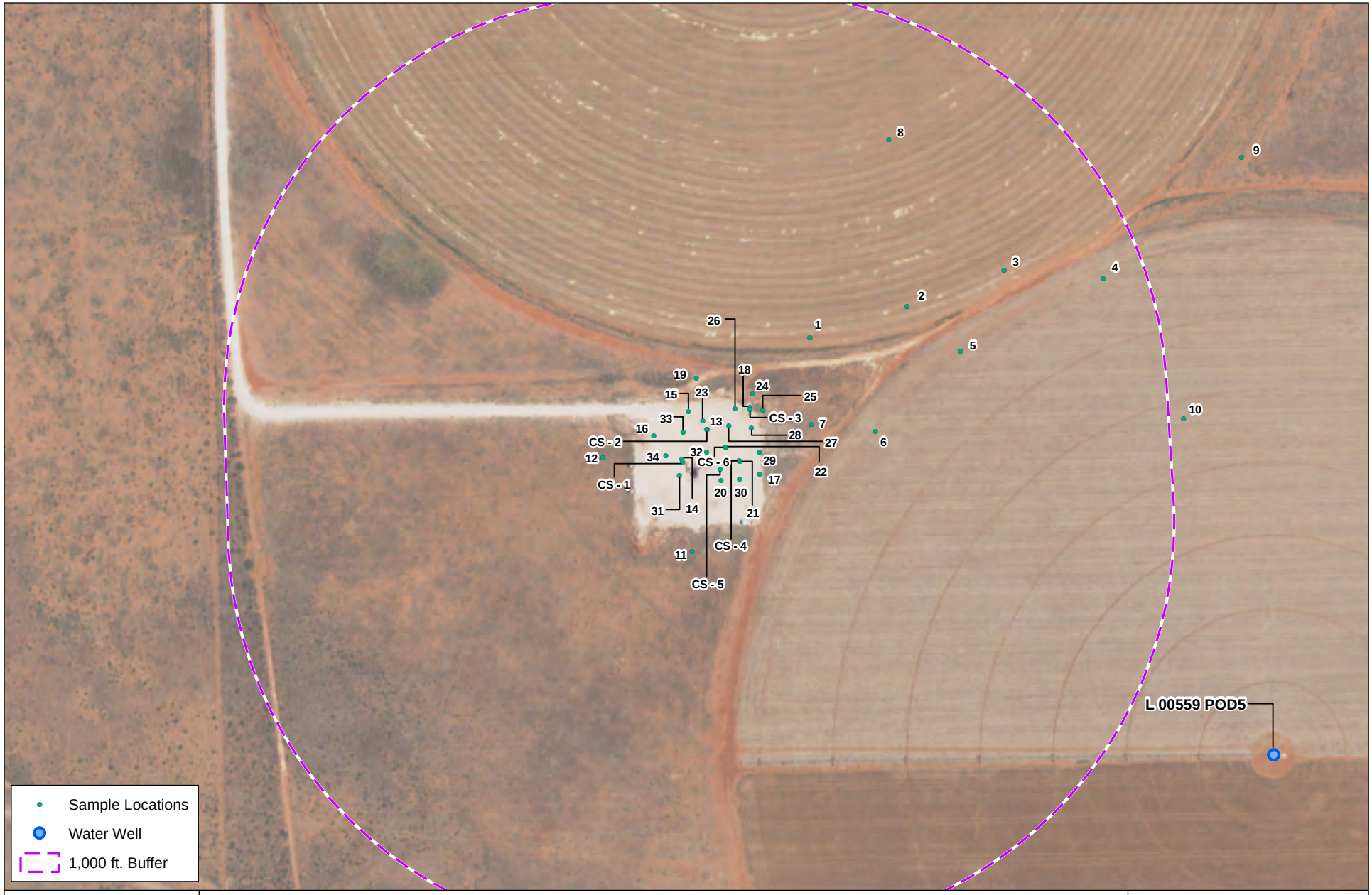
0 200 400 800 1,200 1,600 2,000 2,400 Feet

SPHERE 3 ENVIRONMENTAL

1501 Bill Owens Parkway
Longview, TX 75604
Phone: (903) 297-4673
www.sphere3env.com

Steward Energy II, LLC Project Number: 049998.00	Date: 09/16/2023	Base Map: NRCS Geospatial Data Gateway 2022 NAIP Aerial Imagery (Lea County, NM)

Attachment B
Map Sample Point Locations
collected by REX and Sphere 3



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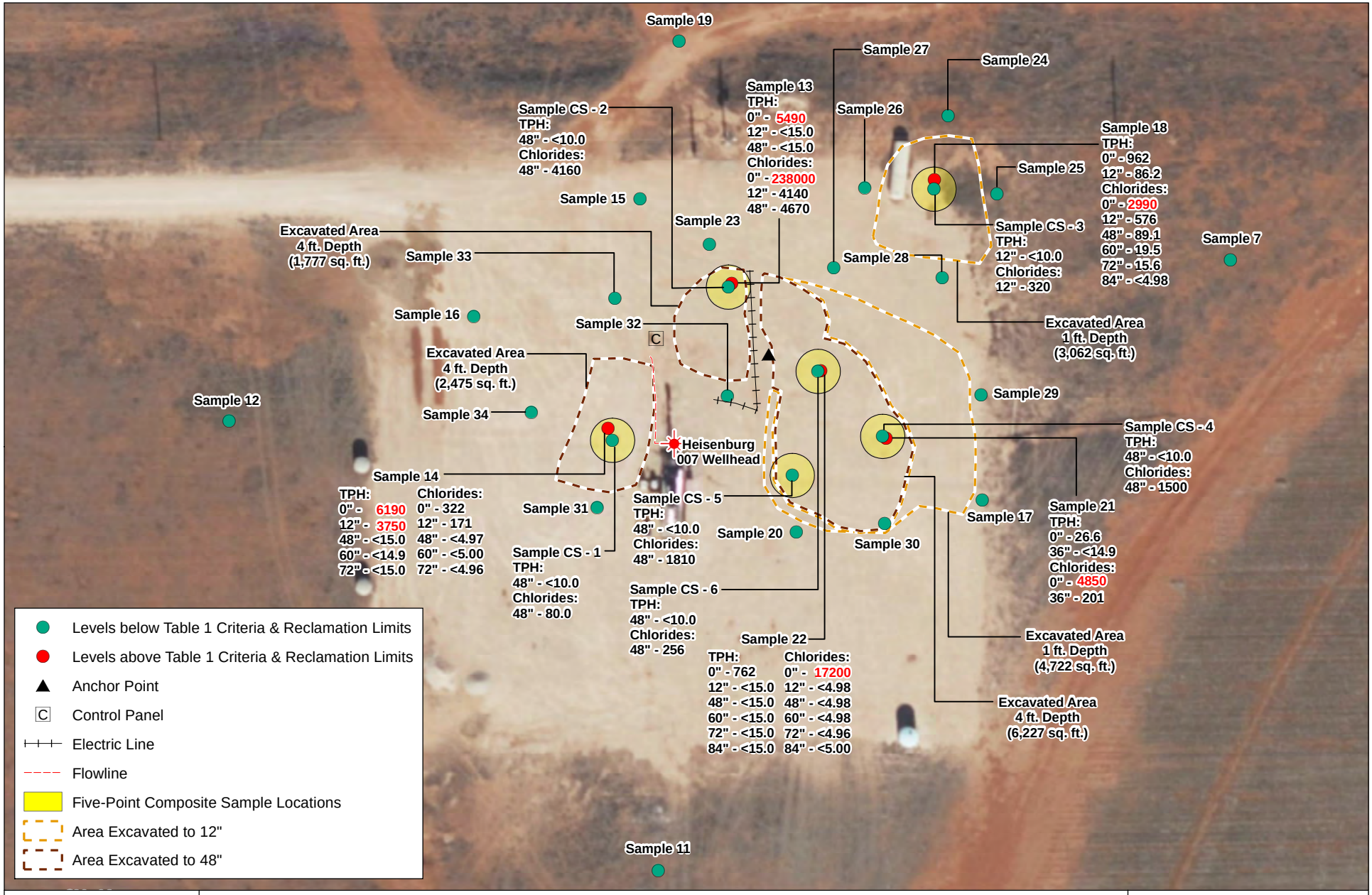
SITE PLAN
Heisenberg State Com No. 7 REX Sample Point Locations
Lea County, NM

0 250 500 1,000 1,500 2,000 Feet

Steward Energy II, LLC	Project Number: 049998.00	Date: 04/13/2023	Base Map: NRCS Geospatial Data Gateway 2022 NAIP Aerial Imagery (Lea County, NM)

SPHERE 3 ENVIRONMENTAL
1501 Bill Owens Parkway
Longview, TX 75604
Phone: (903) 297-4673
www.sphere3env.com

Attachment C
Map of Select Existing Sample Points and Remediated Areas



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SITE PLAN
Heisenberg State Com No. 7 Excavation Area
Lea County, NM

0 50 100 200 300 400 Feet

Steward Energy II, LLC	Project Number: 049998.00	Date: 09/16/2023	Base Map: Bing Aerial Imagery OnTerra WMS Service

SPHERE 3 ENVIRONMENTAL
1501 Bill Owens Parkway
Longview, TX 75604
Phone: (903) 297-4673
www.sphere3env.com

Attachment D
Photos of Excavation Areas

Photograph: 3 **Project I.D. No.:** 049998.00 **Date:** September 15, 2023 **Subject Property:** Steward Energy II, LLC's Heisenberg State Com No. 7H Lea County, NM **Description:** View of the central excavation area to a depth of 48".	

Photograph: 4 **Project I.D. No.:** 049998.00 **Date:** September 15, 2023 **Subject Property:** Steward Energy II, LLC's Heisenberg State Com No. 7H Lea County, NM **Description:** View of the western excavation area to a depth of 48".	

Attachment E
Sample Results and Site Classification Table

Sample Results and Site Classification Table

			BTEX					TPH					Sample Location	
Sample ID	Sample Depth bgs	Date Collected	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Oil Range Organics (ORO)	Total TPH	Chlorides		
Spot #1	0"	12/1/2017	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<25	54.9	<25	54.9	123	33.13263	-103.09732
Spot #1	12" (1 ft)	12/1/2017	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<24.9	<24.9	<24.9	<24.9	22.4	33.13263	-103.09732
Spot #2	0"	12/1/2017	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<24.9	31.6	<24.9	31.6	129	33.13283	-103.09654
Spot #2	12" (1 ft)	12/1/2017	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<25.0	<25.0	<25.0	<25.0	22.6	33.13283	-103.09654
Spot #3	0"	12/1/2017	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<24.9	<24.9	<24.9	<24.9	71.8	33.13306	-103.09576
Spot #3	12" (1 ft)	12/1/2017	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<25.0	<25.0	<25.0	<25.0	9.37	33.13306	-103.09576
Spot #4	0"	12/1/2017	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<24.9	<24.9	<24.9	<24.9	13.4	33.13299	-103.09497
Spot #4	12" (1 ft)	12/1/2017	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<25.0	<25.0	<25.0	<25.0	<4.98	33.13299	-103.09497
Spot #5	0"	12/1/2017	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<25.0	33.5	<25.0	33.5	32	33.13252	-103.09612
Spot #5	12" (1 ft)	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	<25.0	<25.0	<25.0	5.87	33.13252	-103.09612
Spot #6	0"	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	37.6	<25.0	37.6	76.7	33.13199	-103.09681
Spot #6	12" (1 ft)	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	<25.0	<25.0	<25.0	<4.97	33.13199	-103.09681
Spot #7	0"	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<24.9	86.1	<24.9	86.1	112	33.13205	-103.09732
Spot #7	12" (1 ft)	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<24.9	<24.9	<24.9	<24.9	<4.99	33.13205	-103.09732
Spot #8	0"	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	<25.0	<25.0	<25.0	21.8	33.13395	-103.09666
Spot #8	12" (1 ft)	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	<25.0	<25.0	<25.0	<4.94	33.13395	-103.09666
Spot #9	0"	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	<25.0	<25.0	<25.0	<4.99	33.13379	-103.09385
Spot #9	12" (1 ft)	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<24.9	<24.9	<24.9	<24.9	<4.97	33.13379	-103.09385
Spot #10	0"	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	<25.0	<25.0	<25.0	6.45	33.13204	-103.09435
Spot #10	12" (1 ft)	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	<25.0	<25.0	<25.0	<4.97	33.13204	-103.09435
Spot #11	0"	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<24.9	<24.9	<24.9	<24.9	93.3	33.13121	-103.09829
Spot #11	12" (1 ft)	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	<25.0	<25.0	<25.0	321	33.13121	-103.09829
Spot #12	0"	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<25.0	<25.0	<25.0	<25.0	<4.94	33.13185	-103.09899
Spot #12	12" (1 ft)	12/1/2017	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100	<24.9	<24.9	<24.9	<24.9	<4.92	33.13185	-103.09899
Spot #13	0"	12/28/2017	<0.00201	<0.00201	0.00331	<0.00201	0.00331	**17.6**	**4850**	622	**5490**	**238000**	33.13203	-103.09815
Spot #13	12" (1 ft)	12/28/2017	<0.00199	<0.00199	0.00274	<0.00199	0.00274	<15.0	<15.0	<15.0	<15.0	**4670**	33.13203	-103.09815
SP13	48" (4 ft)	4/26/2018						<15.0	<15.0	<15.0	<15.0	**4140**	33.13203	-103.09815
Spot #14	0"	12/28/2017	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	2820	3370	**6190**	322	33.13183	-103.09836
Spot #14	12" (1 ft)	12/28/2017	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	1790	1960	**3750**	171	33.13183	-103.09836
SP14	48" (4 ft)	4/26/2018						<15.0	<15.0	<15.0	<15.0	<4.97	33.13183	-103.09836
SP14	60" (5 ft)	4/26/2018						<14.9	<14.9	<14.9	<14.9	<5.00	33.13183	-103.09836
SP14	72" (6 ft)	4/26/2018						<15.0	<15.0	<15.0	<15.0	<4.96	33.13183	-103.09836
Spot #15	0"	12/28/2017	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	351	59.2	410	169	33.13215	-103.0983
Spot #15	12" (1 ft)	12/28/2017	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	128	33.13215	-103.0983
Spot #16	0"	12/28/2017	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	115	29	144	123	33.13199	-103.09858
Spot #16	12" (1 ft)	12/28/2017	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	12.8	33.13199	-103.09858
Spot #17	0"	12/28/2017	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	78.2	24.6	103	133	33.13172	-103.09774
Spot #17	12" (1 ft)	12/28/2017	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	8.85	33.13172	-103.09774

Spot #18	0"	12/28/2017	<0.00200	0.00552	0.0189	0.0249	0.0493	19.1	808	99.2	926	**2990**	33.13217	-103.09781
Spot #18	12" (1 ft)	12/28/2017	<0.00200	<0.00200	0.00772	0.0137	0.0215	<15.0	86.2	<15.0	86.2	576	33.13217	-103.09781
SP18	48" (4 ft)	4/26/2018										89.1	33.13217	-103.09781
SP18	60" (5 ft)	4/26/2018										19.5	33.13217	-103.09781
SP18	72" (6 ft)	4/26/2018										15.6	33.13217	-103.09781
SP18	84" (7 ft)	4/26/2018										<4.98	33.13217	-103.09781
Spot #19	0"	12/28/2017	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	104	16.5	121	578	33.13237	-103.09823
Spot #19	12" (1 ft)	12/28/2017	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	16	33.13237	-103.09823
Spot #20	0"	12/28/2017	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	186	33.13168	-103.09805
Spot #20	12" (1 ft)	12/28/2017	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<4.97	33.13168	-103.09805
SP21	0"	4/26/2018						<15.0	26.6	<15.0	26.6	**4850**	33.131809	-103.097898
SP21	36" (3 ft)	4/26/2018						<14.9	<14.9	<14.9	<14.9	201	33.131809	-103.097898
SP22	0"	4/26/2018						<15.0	697	65.4	762	**17200**	33.131905	-103.098005
SP22	12" (1 ft)	4/26/2018						<15.0	<15.0	<15.0	<15.0	<4.98	33.131905	-103.098005
SP22	48" (4 ft)	4/26/2018						<15.0	<15.0	<15.0	<15.0	<4.98	33.131905	-103.098005
SP22	60" (5 ft)	4/26/2018						<15.0	<15.0	<15.0	<15.0	<4.98	33.131905	-103.098005
SP22	72" (6 ft)	4/26/2018						<15.0	<15.0	<15.0	<15.0	<4.96	33.131905	-103.098005
SP22	84" (7 ft)	4/26/2018						<15.0	<15.0	<15.0	<15.0	<5.00	33.131905	-103.098005
SP23	0"	4/26/2018						17.2	304	50.8	372	475	33.132085	-103.098186
SP23	36" (3 ft)	4/26/2018						<15.0	<15.0	<15.0	<15.0	<4.99	33.132085	-103.098186
SP 24	12" (1ft)	8/23/2023										16	33.13225819	-103.0977849
SP 24	24" (2 ft)	8/23/2023										144	33.13225819	-103.0977849
SP 24	36" (3 ft)	8/23/2023										64	33.13225819	-103.0977849
SP 24	48" (4 ft)	8/23/2023										32	33.13225819	-103.0977849
SP 25	12" (1ft)	8/23/2023										32	33.13214821	-103.0977064
SP 25	24" (2 ft)	8/23/2023										112	33.13214821	-103.0977064
SP 25	29" (2.42 ft)	8/23/2023										544	33.13214821	-103.0977064
SP 26	12" (1ft)	8/23/2023										48	33.13215985	-103.0979259
SP 26	24" (2 ft)	8/23/2023										160	33.13215985	-103.0979259
SP 26	36" (3 ft)	8/23/2023										96	33.13215985	-103.0979259
SP 27	12" (1ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	112	33.13204877	-103.0979799
SP 27	24" (2 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	16	33.13204877	-103.0979799
SP 27	36" (3 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	32	33.13204877	-103.0979799
SP 27	42" (3.5 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	32	33.13204877	-103.0979799
SP 28	12" (1ft)	8/23/2023										192	33.13203222	-103.0977996
SP 28	24" (2 ft)	8/23/2023										192	33.13203222	-103.0977996
SP 28	32" (2.67 ft)	8/23/2023										160	33.13203222	-103.0977996
SP 29	12" (1 ft)	8/23/2023										80	33.13186746	-103.0977385
SP 29	24" (2 ft)	8/23/2023										432	33.13186746	-103.0977385
SP 29	32" (2.67 ft)	8/23/2023										496	33.13186746	-103.0977385
SP 30	12" (1 ft)	8/23/2023										144	33.13168964	-103.0979027
SP 30	24" (2 ft)	8/23/2023										16	33.13168964	-103.0979027
SP 30	36" (3 ft)	8/23/2023										32	33.13168964	-103.0979027

SP 31	12" (1 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0		33.13171947	-103.0983806
SP 31	24" (2 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0		33.13171947	-103.0983806
SP 31	36" (3 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0		33.13171947	-103.0983806
SP 31	48" (4 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0		33.13171947	-103.0983806
SP 32	12" (1 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	160	33.13187201	-103.0981605
SP 32	24" (2 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	80	33.13187201	-103.0981605
SP 32	36" (3 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	144	33.13187201	-103.0981605
SP 33	12" (1 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	80	33.13201162	-103.098345
SP 33	24" (2 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	16	33.13201162	-103.098345
SP 33	36" (3 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0	48	33.13201162	-103.098345
SP 34	12" (1 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0		33.13185396	-103.0984868
SP 34	24" (2 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0		33.13185396	-103.0984868
SP 34	36" (3 ft)	8/23/2023						<10.0	<10.0	<10.0	<10.0		33.13185396	-103.0984868
CS - 1	48" (4 ft)	9/13/2023						<10.0	<10.0	<10.0	<10.0	80	33.13181294	-103.0983532
CS - 2	48" (4 ft)	9/13/2023						<10.0	<10.0	<10.0	<10.0	4160	33.13202439	-103.0981559
CS - 3	12" (1 ft)	9/15/2023						<10.0	<10.0	<10.0	<10.0	320	33.13215636	-103.097811
CS - 4	48" (4 ft)	9/15/2023						<10.0	<10.0	<10.0	<10.0	1500	33.13181163	-103.0979039
CS - 5	48" (4 ft)	9/15/2023						<10.0	<10.0	<10.0	<10.0	1810	33.13175919	-103.0980553
CS - 6	48" (4 ft)	9/15/2023						<10.0	<10.0	<10.0	<10.0	256	33.13190422	-103.0980092
NMAC Closure Criteria for Soils Impacted by a Release Concentrations for minimum depth of groundwater 51– 100 feet or Reclamation limits														
Soil (mg/kg)			10				50	1,000		2,500	10,000			
NMAC Delienation Requirements from 0' to 4' bgs for Impacted Soils Impacted per 19.15.29.13 D. (1)														
Soil (mg/kg)			10								600			
Soil results are reported in mg/kg (milligrams per kilogram)														

Attachment F
Laboratory Results and Chain of Custodies

CARDINAL Laboratories

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

September 15, 2023

CRISSY FORREST

SPHERE 3 ENVIRONMENTAL

1501 BILL OWENS PARKWAY

LONGVIEW, TX 75604

RE: HEISENBERG 007 SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 09/15/23 12:04.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	09/15/2023	Sampling Date:	09/13/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Dionica Hinojos
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 1 @ 48" (H235004-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	09/15/2023	ND	400	100	400	7.69	

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	09/15/2023	ND	207	104	200	0.677	
DRO >C10-C28*	<10.0	10.0	09/15/2023	ND	210	105	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	09/15/2023	ND					

Surrogate: 1-Chlorooctane	*115 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*137 %*	*49.1-148*

Sample ID: CS - 2 @ 48" (H235004-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**4160**	16.0	09/15/2023	ND	400	100	400	7.69	

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	09/15/2023	ND	207	104	200	0.677	
DRO >C10-C28*	<10.0	10.0	09/15/2023	ND	210	105	200	1.20	
EXT DRO >C28-C36	<10.0	10.0	09/15/2023	ND					

Surrogate: 1-Chlorooctane	*114 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*134 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	09/15/2023	Sampling Date:	09/15/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Dionica Hinojos
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 3 @ 12" (H235004-04)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**320**	16.0	09/15/2023	ND	400	100	400	7.69	

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	09/15/2023	ND	199	99.5	200	3.77	
DRO >C10-C28*	<10.0	10.0	09/15/2023	ND	204	102	200	3.81	
EXT DRO >C28-C36	<10.0	10.0	09/15/2023	ND					

Surrogate: 1-Chlorooctane	*98.0 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*108 %*	*49.1-148*

Sample ID: CS - 4 @ 48" (H235004-05)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1500**	16.0	09/15/2023	ND	400	100	400	7.69	

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	09/15/2023	ND	199	99.5	200	3.77	
DRO >C10-C28*	<10.0	10.0	09/15/2023	ND	204	102	200	3.81	
EXT DRO >C28-C36	<10.0	10.0	09/15/2023	ND					

Surrogate: 1-Chlorooctane	*90.6 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*106 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	09/15/2023	Sampling Date:	09/15/2023
Reported:	09/15/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Dionica Hinojos
Project Location:	LEA COUNTY, NM		

Sample ID: CS - 5 @ 48" (H235004-06)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**1810**	16.0	09/15/2023	ND	400	100	400	7.69	

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	09/15/2023	ND	184	91.9	200	4.67	
DRO >C10-C28*	<10.0	10.0	09/15/2023	ND	192	95.8	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	09/15/2023	ND					

Surrogate: 1-Chlorooctane	*90.3 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*125 %*	*49.1-148*

Sample ID: CS - 6 @ 48" (H235004-07)

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	09/15/2023	ND	400	100	400	7.69	

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	09/15/2023	ND	184	91.9	200	4.67	
DRO >C10-C28*	<10.0	10.0	09/15/2023	ND	192	95.8	200	4.12	
EXT DRO >C28-C36	<10.0	10.0	09/15/2023	ND					

Surrogate: 1-Chlorooctane	*95.2 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*127 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

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 *=Accredited Analyte

Mike Snyder For 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

Company Name:	Sphere 3 Environmental
Project Manager:	Crissy Forrest
Address:	1501 Bill Owens Parkway
City:	Longview State: TX Zip: 75604
Phone #:	903.297.4673 Fax #:
Project #:	049998.00 Project Owner: Sphere 3
Project Name:	Aesenberg 7 Spacing
Project Location:	Lea Co., NM
Sampler Name:	Crissy Forrest

BILL TO

P.O. #:	049998.00
Company:	Sphere 3
Attn:	Jaime Sells
Address:	1501 Bill Owens Pkwy
City:	Longview
State:	TX Zip: 75604
Phone #:	903.297.4673
Fax #:	903.297.4675

FOR LAB USE ONLY: H235004

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	Chlorides EPA 300 or SM 4500 Cl B	TPH (GRO+DRO+MRO) Method 8015M EPA: Surface
1	CS-1 @ 48"	C	1			X					X		9/13/23	4:18 PM	X	X
2	CS-2 @ 48"	C	1			X					X		9/14/23	8:39 AM	X	X
3	CS-2 @ 60"	C	1			X					X		9/14/23	12:28 PM	HOLD	
4	CS-3 @ 12"	C	1			X					X		9/15/23	8:58 AM	X	X
5	CS-4 @ 48"	C	1			X					X		9/15/23	9:59 AM	X	X
6	CS-5 @ 48"	C	1			X					X		9/15/23	10:24 AM	X	X
7	CS-6 @ 48"	C	1			X					X		9/15/23	10:45 AM	X	X

Relinquished By:	Crissy Forrest	Date: 9/15/23 Time: 11:11 AM	Received By: Hunter Dodd
Relinquished By:	Hunter Dodd	Date: 12:04 pm Time: 9-15-2023	Received By:
Delivered By: (Circle One)	Sampler - UPS - Bus - Other:	58°C #140	Sample Condition: Cool Yes / Intact Yes; No / No — CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:

RUSH - ASAP - Same day if possible

cforrest@sphere3env.com

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

CARDINAL Laboratories

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

August 29, 2023

CRISSY FORREST

SPHERE 3 ENVIRONMENTAL

1501 BILL OWENS PARKWAY

LONGVIEW, TX 75604

RE: HEISENBERG 007 SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 08/23/23 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accreditated 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,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 24 @ 12" (H234582-01)

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	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 24 @ 24" (H234582-02)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 24 @ 36" (H234582-03)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 24 @ 48" (H234582-04)

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	08/25/2023	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 25 @ 12" (H234582-05)

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	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 25 @ 24" (H234582-06)

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	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 25 @ 29" (H234582-07)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**544**	16.0	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 26 @ 12" (H234582-08)

Chloride, SM4500Cl-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	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 26 @ 24" (H234582-09)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	08/25/2023	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 26 @ 36" (H234582-10)

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	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 27 @ 12" (H234582-11)

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	08/25/2023	ND	432	108	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	08/25/2023	ND	157	78.7	200	3.21	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	158	79.2	200	5.84	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*91.1 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*99.2 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 27 @ 24" (H234582-12)

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	08/25/2023	ND	432	108	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	08/25/2023	ND	157	78.7	200	3.21	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	158	79.2	200	5.84	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*90.5 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*97.5 %*	*49.1-148*

Sample ID: SP 27 @ 36" (H234582-13)

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	08/25/2023	ND	432	108	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	08/25/2023	ND	157	78.7	200	3.21	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	158	79.2	200	5.84	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*88.8 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*97.0 %*	*49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 27 @ 42" (H234582-14)

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	08/25/2023	ND	432	108	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	08/25/2023	ND	157	78.7	200	3.21	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	158	79.2	200	5.84	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*103 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*89.9 %*	*49.1-148*

Sample ID: SP 28 @ 12" (H234582-15)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 28 @ 24" (H234582-16)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**192**	16.0	08/25/2023	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 28 @ 32" (H234582-17)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 29 @ 12" (H234582-18)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 29 @ 24" (H234582-19)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**432**	16.0	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 29 @ 32" (H234582-20)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**496**	16.0	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 30 @ 12" (H234582-21)

Chloride, SM4500Cl-B mg/kg **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/25/2023	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 30 @ 24" (H234582-22)

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	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 30 @ 36" (H234582-23)

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	08/25/2023	ND	432	108	400	0.00	

Sample ID: SP 31 @ 12" (H234582-24)

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	08/25/2023	ND	157	78.7	200	3.21	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	158	79.2	200	5.84	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*98.6 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*109 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 31 @ 24" (H234582-25)

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	08/25/2023	ND	157	78.7	200	3.21	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	158	79.2	200	5.84	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*105 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*116 %*	*49.1-148*

Sample ID: SP 31 @ 36" (H234582-26)

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	08/25/2023	ND	157	78.7	200	3.21	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	158	79.2	200	5.84	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*98.7 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*109 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 31 @ 48" (H234582-27)

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	08/25/2023	ND	157	78.7	200	3.21	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	158	79.2	200	5.84	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*96.5 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*105 %*	*49.1-148*

Sample ID: SP 32 @ 12" (H234582-28)

Chloride, SM4500Cl-B **mg/kg** **Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**160**	16.0	08/25/2023	ND	432	108	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	08/25/2023	ND	157	78.7	200	3.21	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	158	79.2	200	5.84	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*99.6 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*109 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 32 @ 24" (H234582-29)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/25/2023	ND	432	108	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	08/24/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					

Surrogate: 1-Chlorooctane	*85.4 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*97.1 %*	*49.1-148*

Sample ID: SP 32 @ 36" (H234582-30)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**144**	16.0	08/25/2023	ND	432	108	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	08/24/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					

Surrogate: 1-Chlorooctane	*87.0 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*97.6 %*	*49.1-148*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 33 @ 12" (H234582-31)

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**80.0**	16.0	08/25/2023	ND	432	108	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	08/24/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					

Surrogate: 1-Chlorooctane	*81.4 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*91.1 %*	*49.1-148*

Sample ID: SP 33 @ 24" (H234582-32)

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	08/25/2023	ND	432	108	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	08/24/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					

Surrogate: 1-Chlorooctane	*92.8 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*103 %*	*49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 33 @ 36" (H234582-33)

Chloride, SM4500Cl-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	08/25/2023	ND	432	108	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	08/24/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					

Surrogate: 1-Chlorooctane	*91.0 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*100 %*	*49.1-148*

Sample ID: SP 34 @ 12" (H234582-34)

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	08/24/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					

Surrogate: 1-Chlorooctane	*86.2 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*93.9 %*	*49.1-148*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	08/23/2023	Sampling Date:	08/23/2023
Reported:	08/29/2023	Sampling Type:	Soil
Project Name:	HEISENBERG 007 SAMPLING	Sampling Condition:	Cool & Intact
Project Number:	049998.00	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SP 34 @ 24" (H234582-35)

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	08/24/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					

Surrogate: 1-Chlorooctane	*86.1 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*97.5 %*	*49.1-148*

Sample ID: SP 34 @ 36" (H234582-36)

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	08/25/2023	ND	159	79.3	200	1.82	
DRO >C10-C28*	<10.0	10.0	08/25/2023	ND	169	84.3	200	3.93	
EXT DRO >C28-C36	<10.0	10.0	08/25/2023	ND					

Surrogate: 1-Chlorooctane	*77.3 %*	*48.2-134*
Surrogate: 1-Chlorooctadecane	*84.2 %*	*49.1-148*

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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, Lab Director/Quality Manager

CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Sphere 3 Environmental	**BILL TO**
Project Manager: Crissy Forrest	**P.O. #:** 049998.00
Address: 1501 Bill Owens Parkway	**Company:** Sphere 3
City: Longview **State:** TX **Zip:** 75604	**Attn:** Jackie Starts
Phone #: 903-297-4673 **Fax #:** 903-297-4675	**Address:** 1501 Bill Owens Pkwy
Project #: 049998.00 **Project Owner:** Sphere 3	**City:** Longview
Project Name: Heisenberg 007 Sampling	**State:** TX **Zip:** 75604
Project Location: Lea County, NM	**Phone #:** 903-297-4673
Sampler Name: Crissy Forrest	**Fax #:** 903-297-4675

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST												
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides (EPA 300.0 / SM4500 Cl B)	TPH (EPA SW-846 / Method 8015M)												
H34582																												
1	SP24@12"	G	1			X					X		8/23	6:40	X	H												
2	SP24@24"	G	1			X					X		8/23	6:48	X	H												
3	SP24@36"	G	1			X					X		8/23	6:50	X	H												
4	SP24@48"	G	1			X					X		8/23	6:55	X	H												
5	SP25@12"	G	1			X					X		8/23	7:00	X	H												
6	SP25@24"	G	1			X					X		8/23	7:07	X	H												
7	SP25@29"	G	1			X					X		8/23	7:11	X	H												
8	SP26@12"	G	1			X					X		8/23	7:15	X	H												
9	SP26@24"	G	1			X					X		8/23	7:19	X	H												
10	SP26@36"	G	1			X					X		8/23	7:21	X	H												

Relinquished By: Crissy Forrest	**Date:** 8/23 **Time:** 12:15	**Received By:** Sphodrigues	**Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:**	
Relinquished By:	**Date:** **Time:**	**Received By:**	**All Results are emailed. Please provide Email address:**	
			REMARKS: H = HOLD	

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.3 Corrected Temp. °C	**Sample Condition** Cool: ☑ Yes ☐ No Intact: ☐ Yes ☐ No	**CHECKED BY:** (Initials) SR	**Turnaround Time:** Standard ☐ Rush ☐ Thermometer ID #113 Correction Factor -0.5°C #140	**Bacteria (only) Sample Condition** Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No **Observed Temp. °C** **Corrected Temp. °C**

FORM-006 R 3.2 10/07/21

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Sphere 3 Environmental	**BILL TO**
Project Manager: Crissy Forrest	**P.O. #:** 049998.00
Address: 1501 Bill Owens Parkway	**Company:** Sphere 3
City: Longview **State:** TX **Zip:** 75604	**Attn:** Jackie Starts
Phone #: 903-297-4673 **Fax #:** 903-297-4675	**Address:** 1501 Bill Owens Pkwy
Project #: 049998.00 **Project Owner:** Sphere 3	**City:** Longview
Project Name: Heisenberg 007 Sampling	**State:** TX **Zip:** 75604
Project Location: Lea County, NM	**Phone #:** 903-297-4673
Sampler Name: Crissy Forrest	**Fax #:** 903-297-4675

FOR LAB USE ONLY				MATRIX							PRESERV.			SAMPLING		ANALYSIS REQUEST	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides (EPA 300.0 / SM4500 Cl B)	TPH (EPA SW-846 / Method 8015M)
H234582											✓					
11	SP 27 @ 12"	G	1			X					X		8123	7:26	X	X
12	SP 27 @ 24"	G	1			X					X		8123	7:30	X	X
13	SP 27 @ 36"	G	1			X					X		8123	7:33	X	X
14	SP 27 @ 42"	G	1			X					X		8123	7:38	X	X
15	SP 28 @ 12"	G	1			X					X		8123	7:41	X	H
16	SP 28 @ 24"	G	1			X					X		8123	7:45	X	H
17	SP 28 @ 32"	G	1			X					X		8123	7:50	X	H
18	SP 29 @ 12"	G	1			X					X		8123	7:55	X	H
19	SP 29 @ 24"	G	1			X					X		8123	7:59	X	H
20	SP 29 @ 32"	G	1			X					X		8123	8:03	X	H

Relinquished By: Crissy Forrest	**Date:** 8123 **Time:** 12:15	**Received By:** S Rodriguez	**Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:**
Relinquished By:	**Date:** **Time:**	**Received By:**	**All Results are emailed. Please provide Email address:**
			REMARKS: H = HOLD

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.3 Corrected Temp. °C	**Sample Condition** Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No	**CHECKED BY: (Initials)**	**Turnaround Time:** Standard ☑ Rush ☐ Thermometer ID #413 Correction Factor -0.5°C #140

Bacteria (only) Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Sphere 3 Environmental	**BILL TO**
Project Manager: Crissy Forrest	**P.O. #:** 049998.00
Address: 1501 Bill Owens Parkway	**Company:** Sphere 3
City: Longview **State:** TX **Zip:** 75604	**Attn:** Jackie Starts
Phone #: 903-297-4673 **Fax #:** 903-297-4675	**Address:** 1501 Bill Owens Pkwy
Project #: 049998.00 **Project Owner:** Sphere 3	**City:** Longview
Project Name: Heisenberg 007 Sampling	**State:** TX **Zip:** 75604
Project Location: Lea County, NM	**Phone #:** 903-297-4673
Sampler Name: Crissy Forrest	**Fax #:** 903-297-4675

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides (EPA 300.0 / SM4500 Cl B)	TPH (EPA SW-846 / Method 8015M)
H234580																
21	SP 30 @ 12"	G	1			X					X		8123	8:07	X	H
22	SP 30 @ 24"	G	1			X					X		8123	8:13	X	H
23	SP 30 @ 36"	G	1			X					X		8123	8:17	X	H
24	SP 31 @ 12"	G	1			X					X		8123	8:25	H	X
25	SP 31 @ 24"	G	1			X					X		8123	8:29	H	X
26	SP 31 @ 36"	G	1			X					X		8123	8:33	H	X
27	SP 31 @ 48"	G	1			X					X		8123	8:40	H	X
28	SP 32 @ 12"	G	1			X					X		8123	8:43	X	X
29	SP 32 @ 24"	G	1			X					X		8123	8:50	X	X
30	SP ~~33~~ 32 @ 36"	G	1			X					X		8123	8:55	X	X

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 consequental 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 hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Crissy Forrest	**Date:** 8123 **Time:** 12:15	**Received By:** S Rodriguez	**Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:**
Relinquished By:	**Date:** **Time:**	**Received By:**	**All Results are emailed. Please provide Email address:**
			REMARKS: H = HOLD

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2-3 Corrected Temp. °C	**Sample Condition** Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No	**CHECKED BY: (Initials)** SR	**Turnaround Time:** Standard ☑ Rush ☐ Thermometer ID #113 Correction Factor -0.5 °C #140

Bacteria (only) Sample Condition Cool: ☐ Yes ☐ No Intact: ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Sphere 3 Environmental	**BILL TO**
Project Manager: Crissy Forrest	**P.O. #:** 049998.00
Address: 1501 Bill Owens Parkway	**Company:** Sphere 3
City: Longview **State:** TX **Zip:** 75604	**Attn:** Jackie Starts
Phone #: 903-297-4673 **Fax #:** 903-297-4675	**Address:** 1501 Bill Owens Pkwy
Project #: 049998.00 **Project Owner:** Sphere 3	**City:** Longview
Project Name: Heisenberg 007 Sampling	**State:** TX **Zip:** 75604
Project Location: Lea County, NM	**Phone #:** 903-297-4673
Sampler Name: Crissy Forrest	**Fax #:** 903-297-4675

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chlorides (EPA 300.0 / SM4500 Cl B)	TPH (EPA SW-846 / Method 8015M)
H234582																
31	SP 33 @ 12'	G	1			X					X		8/23	9:02	X	X
32	SP 33 @ 24'	G	1			X					X		8/23	9:05	X	X
33	SP 33 @ 36'	G	1			X					X		8/23	9:11	X	X
34	SP 34 @ 12'	G	1			X					X		8/23	9:15	H	X
35	SP 34 @ 24'	G	1			X					X		8/23	9:21	H	X
36	SP 34 @ 36'	G	1			X					X		8/23	9:25	H	X
		G	1			X					X					
		G	1			X					X					
		G	1			X					X					
		G	1			X					X					

Relinquished By: Crissy Forrest	**Date:** 8/23 **Time:** 12:15	**Received By:** S Rodriguez	**Verbal Result:** ☐ Yes ☐ No **Add'l Phone #:**
Relinquished By:	**Date:** **Time:**	**Received By:**	**All Results are emailed. Please provide Email address:**
			REMARKS: H=HOLD

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 2.3 Corrected Temp. °C	**Sample Condition** Cool ☑ Yes Intact ☑ Yes ☐ No ☐ No	**CHECKED BY: (Initials)** SR	**Turnaround Time:** Standard ☑ Rush ☐ Thermometer ID #113 Correction Factor -0.5°C = #140

Bacteria (only) Sample Condition Cool ☐ Yes ☐ No Intact ☐ Yes ☐ No Observed Temp. °C Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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Analytical Report 569997

for

Remediation and Environmental Xperts, LLC

Project Manager: Rex Rainey

Steward

05-DEC-17

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

05-DEC-17

Project Manager: **Rex Rainey**
Remediation and Environmental Xperts, LLC
P.O. Box 2699
Big Spring, TX 79720

Reference: XENCO Report No(s): **569997**
Steward
Project Address: Heisenberg State Com 7H

Rex Rainey:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 569997. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 569997 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
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Sample Cross Reference 569997

Remediation and Environmental Xperts, LLC, Big Spring, T

Steward

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Spot 1	S	12-01-17 09:30	Surface	569997-001
Spot 1	S	12-01-17 10:00	12 In	569997-002
Spot 2	S	12-01-17 10:30	Surface	569997-003
Spot 2	S	12-01-17 11:00	12 In	569997-004
Spot 3	S	12-01-17 11:30	Surface	569997-005
Spot 3	S	12-01-17 12:00	12 In	569997-006
Spot 4	S	12-01-17 12:30	Surface	569997-007
Spot 4	S	12-01-17 13:00	12 In	569997-008
Spot 5	S	12-01-17 13:30	Surface	569997-009
Spot 5	S	12-01-17 14:00	12 In	569997-010
Spot 6	S	12-01-17 09:00	Surf	569997-011
Spot 6	S	12-01-17 09:30	12 In	569997-012
Spot 7	S	12-01-17 10:00	Surf	569997-013
Spot 7	S	12-01-17 10:30	12 In	569997-014
Spot 8	S	12-01-17 11:00	Surf	569997-015
Spot 8	S	12-01-17 11:30	12 In	569997-016
Spot 9	S	12-01-17 12:00	Surf	569997-017
Spot 9	S	12-01-17 12:30	12 In	569997-018
Spot 10	S	12-01-17 13:00	Surf	569997-019
Spot 10	S	12-01-17 13:30	12 In	569997-020
Spot 12	S	12-01-17 14:30	Surf	569997-021
Spot 12	S	12-01-17 15:00	12 In	569997-022
Spot 11	S	12-01-17 15:30	Surf	569997-023
Spot 11	S	12-01-17 16:00	12 In	569997-024

CASE NARRATIVE

Client Name: Remediation and Environmental Xperts, LLC

Project Name: Steward

Project ID:
Work Order Number(s): *569997*

Report Date: *05-DEC-17*
Date Received: *12/04/2017*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3034895 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3034937 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Lab Sample ID 569997-011 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 569997-010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024.
The Laboratory Control Sample for o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 1**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-001	Date Collected:	12.01.17 09.30	Sample Depth:	Surface

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.04.17 17.00	Basis:	Wet Weight
Seq Number:	3034981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**123**	4.94	mg/kg	12.04.17 22.58		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 14.19	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	**54.9**	25.0	mg/kg	12.04.17 14.19		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 14.19	U	1
Total TPH 1005	PHC635	**54.9**	25.0	mg/kg	12.04.17 14.19		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	12.04.17 14.19	
o-Terphenyl	84-15-1	88	%	70-130	12.04.17 14.19	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 1**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-001	Date Collected:	12.01.17 09.30	Sample Depth:	Surface
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.15	Basis:	Wet Weight
Seq Number:	3034895				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.04.17 14.04	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.04.17 14.04	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.04.17 14.04	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.04.17 14.04	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.04.17 14.04	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.04.17 14.04	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.04.17 14.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	80-120	12.04.17 14.04	
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.04.17 14.04	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 1**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-002	Date Collected:	12.01.17 10.00	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.04.17 17.00	Basis:	Wet Weight
Seq Number:	3034981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.4**	4.97	mg/kg	12.05.17 10.01		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<24.9	24.9	mg/kg	12.04.17 15.20	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<24.9	24.9	mg/kg	12.04.17 15.20	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<24.9	24.9	mg/kg	12.04.17 15.20	U	1
Total TPH 1005	PHC635	<24.9	24.9	mg/kg	12.04.17 15.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	12.04.17 15.20	
o-Terphenyl	84-15-1	98	%	70-130	12.04.17 15.20	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 1**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-002	Date Collected:	12.01.17 10.00	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.15	Basis:	Wet Weight
Seq Number:	3034895				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.04.17 14.23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.04.17 14.23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.04.17 14.23	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	12.04.17 14.23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.04.17 14.23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.04.17 14.23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.04.17 14.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	80-120	12.04.17 14.23	
1,4-Difluorobenzene	540-36-3	95	%	80-120	12.04.17 14.23	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 2**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-003	Date Collected:	12.01.17 10.30	Sample Depth:	Surface

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.04.17 17.00	Basis:	Wet Weight
Seq Number:	3034981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**129**	4.96	mg/kg	12.05.17 10.10		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<24.9	24.9	mg/kg	12.04.17 15.40	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	**31.6**	24.9	mg/kg	12.04.17 15.40		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<24.9	24.9	mg/kg	12.04.17 15.40	U	1
Total TPH 1005	PHC635	**31.6**	24.9	mg/kg	12.04.17 15.40		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	12.04.17 15.40	
o-Terphenyl	84-15-1	85	%	70-130	12.04.17 15.40	

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Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 2**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-003	Date Collected:	12.01.17 10.30	Sample Depth:	Surface
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.15	Basis:	Wet Weight
Seq Number:	3034895				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.04.17 14.42	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.04.17 14.42	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.04.17 14.42	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.04.17 14.42	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.04.17 14.42	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.04.17 14.42	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.04.17 14.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	80-120	12.04.17 14.42	
1,4-Difluorobenzene	540-36-3	95	%	80-120	12.04.17 14.42	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 2**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-004	Date Collected:	12.01.17 11.00	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.04.17 17.00	Basis:	Wet Weight
Seq Number:	3034981				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.6**	4.92	mg/kg	12.05.17 10.18		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 16.01	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 16.01	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 16.01	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 16.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	12.04.17 16.01	
o-Terphenyl	84-15-1	92	%	70-130	12.04.17 16.01	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 2**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-004	Date Collected:	12.01.17 11.00	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.15	Basis:	Wet Weight
Seq Number:	3034895				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.04.17 15.00	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.04.17 15.00	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.04.17 15.00	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	12.04.17 15.00	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.04.17 15.00	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.04.17 15.00	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.04.17 15.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	80-120	12.04.17 15.00	
4-Bromofluorobenzene	460-00-4	89	%	80-120	12.04.17 15.00	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 3**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-005	Date Collected:	12.01.17 11.30	Sample Depth:	Surface

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**71.8**	4.95	mg/kg	12.05.17 10.47		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<24.9	24.9	mg/kg	12.04.17 16.21	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<24.9	24.9	mg/kg	12.04.17 16.21	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<24.9	24.9	mg/kg	12.04.17 16.21	U	1
Total TPH 1005	PHC635	<24.9	24.9	mg/kg	12.04.17 16.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	12.04.17 16.21	
o-Terphenyl	84-15-1	97	%	70-130	12.04.17 16.21	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 3**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-005	Date Collected:	12.01.17 11.30	Sample Depth:	Surface
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.15	Basis:	Wet Weight
Seq Number:	3034895				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.04.17 15.19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.04.17 15.19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.04.17 15.19	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.04.17 15.19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.04.17 15.19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.04.17 15.19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.04.17 15.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	80-120	12.04.17 15.19	
4-Bromofluorobenzene	460-00-4	93	%	80-120	12.04.17 15.19	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 3**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-006	Date Collected:	12.01.17 12.00	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.37**	4.97	mg/kg	12.05.17 11.05		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 16.41	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 16.41	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 16.41	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 16.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	12.04.17 16.41	
o-Terphenyl	84-15-1	97	%	70-130	12.04.17 16.41	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 3**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-006	Date Collected:	12.01.17 12.00	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.15	Basis:	Wet Weight
Seq Number:	3034895				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.04.17 15.39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.04.17 15.39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.04.17 15.39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.04.17 15.39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.04.17 15.39	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.04.17 15.39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.04.17 15.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	80-120	12.04.17 15.39	
1,4-Difluorobenzene	540-36-3	96	%	80-120	12.04.17 15.39	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 4**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-007	Date Collected:	12.01.17 12.30	Sample Depth:	Surface

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.4**	4.95	mg/kg	12.05.17 11.11		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<24.9	24.9	mg/kg	12.04.17 17.01	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<24.9	24.9	mg/kg	12.04.17 17.01	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<24.9	24.9	mg/kg	12.04.17 17.01	U	1
Total TPH 1005	PHC635	<24.9	24.9	mg/kg	12.04.17 17.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	12.04.17 17.01	
o-Terphenyl	84-15-1	88	%	70-130	12.04.17 17.01	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 4**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-007	Date Collected:	12.01.17 12.30	Sample Depth:	Surface
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.15	Basis:	Wet Weight
Seq Number:	3034895				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.04.17 15.58	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.04.17 15.58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.04.17 15.58	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.04.17 15.58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.04.17 15.58	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.04.17 15.58	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.04.17 15.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	80-120	12.04.17 15.58	
4-Bromofluorobenzene	460-00-4	91	%	80-120	12.04.17 15.58	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 4**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-008	Date Collected:	12.01.17 13.00	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.98	4.98	mg/kg	12.05.17 11.16	U	1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 17.21	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 17.21	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 17.21	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 17.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	12.04.17 17.21	
o-Terphenyl	84-15-1	86	%	70-130	12.04.17 17.21	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 4**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-008	Date Collected:	12.01.17 13.00	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.15	Basis:	Wet Weight
Seq Number:	3034895				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.04.17 16.17	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.04.17 16.17	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.04.17 16.17	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.04.17 16.17	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.04.17 16.17	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.04.17 16.17	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.04.17 16.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	80-120	12.04.17 16.17	
1,4-Difluorobenzene	540-36-3	95	%	80-120	12.04.17 16.17	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 5**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-009	Date Collected:	12.01.17 13.30	Sample Depth:	Surface

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**32.0**	4.99	mg/kg	12.05.17 11.22		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 17.41	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	**33.5**	25.0	mg/kg	12.04.17 17.41		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 17.41	U	1
Total TPH 1005	PHC635	**33.5**	25.0	mg/kg	12.04.17 17.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	12.04.17 17.41	
o-Terphenyl	84-15-1	81	%	70-130	12.04.17 17.41	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 5**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-009	Date Collected:	12.01.17 13.30	Sample Depth:	Surface
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.15	Basis:	Wet Weight
Seq Number:	3034895				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.04.17 16.37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.04.17 16.37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.04.17 16.37	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.04.17 16.37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.04.17 16.37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.04.17 16.37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.04.17 16.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	80-120	12.04.17 16.37	
1,4-Difluorobenzene	540-36-3	95	%	80-120	12.04.17 16.37	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 5**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-010	Date Collected:	12.01.17 14.00	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.87**	4.99	mg/kg	12.05.17 11.40		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 18.01	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 18.01	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 18.01	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 18.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	12.04.17 18.01	
o-Terphenyl	84-15-1	98	%	70-130	12.04.17 18.01	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 5**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-010	Date Collected:	12.01.17 14.00	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 19.45	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 19.45	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 19.45	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 19.45	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 19.45	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 19.45	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 19.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	85	%	80-120	12.04.17 19.45	
1,4-Difluorobenzene	540-36-3	91	%	80-120	12.04.17 19.45	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 6**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-011	Date Collected:	12.01.17 09.00	Sample Depth:	Surf

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**76.7**	4.98	mg/kg	12.05.17 11.46		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 19.06	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	**37.6**	25.0	mg/kg	12.04.17 19.06		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 19.06	U	1
Total TPH 1005	PHC635	**37.6**	25.0	mg/kg	12.04.17 19.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	12.04.17 19.06	
o-Terphenyl	84-15-1	85	%	70-130	12.04.17 19.06	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 6**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-011	Date Collected:	12.01.17 09.00	Sample Depth:	Surf
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 19.26	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 19.26	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 19.26	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 19.26	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 19.26	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 19.26	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 19.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	80-120	12.04.17 19.26	
4-Bromofluorobenzene	460-00-4	93	%	80-120	12.04.17 19.26	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 6**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-012	Date Collected:	12.01.17 09.30	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	12.05.17 11.52	U	1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 19.27	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 19.27	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 19.27	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 19.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.04.17 19.27	
o-Terphenyl	84-15-1	110	%	70-130	12.04.17 19.27	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 6**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-012	Date Collected:	12.01.17 09.30	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 20.02	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 20.02	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 20.02	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 20.02	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 20.02	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 20.02	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 20.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	80-120	12.04.17 20.02	
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.04.17 20.02	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 7**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-013	Date Collected:	12.01.17 10.00	Sample Depth:	Surf

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**112**	4.98	mg/kg	12.05.17 11.58		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<24.9	24.9	mg/kg	12.04.17 19.48	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	**86.1**	24.9	mg/kg	12.04.17 19.48		1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<24.9	24.9	mg/kg	12.04.17 19.48	U	1
Total TPH 1005	PHC635	**86.1**	24.9	mg/kg	12.04.17 19.48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	12.04.17 19.48	
o-Terphenyl	84-15-1	91	%	70-130	12.04.17 19.48	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 7**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-013	Date Collected:	12.01.17 10.00	Sample Depth:	Surf
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 20.21	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 20.21	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 20.21	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 20.21	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 20.21	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 20.21	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 20.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	80-120	12.04.17 20.21	
1,4-Difluorobenzene	540-36-3	100	%	80-120	12.04.17 20.21	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 7**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-014	Date Collected:	12.01.17 10.30	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	12.05.17 12.04	U	1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<24.9	24.9	mg/kg	12.04.17 20.08	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<24.9	24.9	mg/kg	12.04.17 20.08	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<24.9	24.9	mg/kg	12.04.17 20.08	U	1
Total TPH 1005	PHC635	<24.9	24.9	mg/kg	12.04.17 20.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	12.04.17 20.08	
o-Terphenyl	84-15-1	95	%	70-130	12.04.17 20.08	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 7**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-014	Date Collected:	12.01.17 10.30	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 20.40	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 20.40	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 20.40	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 20.40	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 20.40	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 20.40	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 20.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	84	%	80-120	12.04.17 20.40	
1,4-Difluorobenzene	540-36-3	91	%	80-120	12.04.17 20.40	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 8**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-015	Date Collected:	12.01.17 11.00	Sample Depth:	Surf

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.8**	4.95	mg/kg	12.05.17 12.10		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 20.30	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 20.30	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 20.30	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 20.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	12.04.17 20.30	
o-Terphenyl	84-15-1	84	%	70-130	12.04.17 20.30	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 8**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-015	Date Collected:	12.01.17 11.00	Sample Depth:	Surf
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 20.59	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 20.59	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 20.59	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 20.59	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 20.59	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 20.59	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 20.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.04.17 20.59	
4-Bromofluorobenzene	460-00-4	89	%	80-120	12.04.17 20.59	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 8**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-016	Date Collected:	12.01.17 11.30	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.94	4.94	mg/kg	12.05.17 12.28	U	1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 20.51	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 20.51	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 20.51	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 20.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-135	12.04.17 20.51	
o-Terphenyl	84-15-1	84	%	70-130	12.04.17 20.51	

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Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 8**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-016	Date Collected:	12.01.17 11.30	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 21.17	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 21.17	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 21.17	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 21.17	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 21.17	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 21.17	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 21.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	81	%	80-120	12.04.17 21.17	
4-Bromofluorobenzene	460-00-4	89	%	80-120	12.04.17 21.17	

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Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 9**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-017	Date Collected:	12.01.17 12.00	Sample Depth:	Surf

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.99	4.99	mg/kg	12.05.17 12.34	U	1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 21.12	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 21.12	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 21.12	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 21.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	12.04.17 21.12	
o-Terphenyl	84-15-1	93	%	70-130	12.04.17 21.12	

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Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 9**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-017	Date Collected:	12.01.17 12.00	Sample Depth:	Surf
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 21.36	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 21.36	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 21.36	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 21.36	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 21.36	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 21.36	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 21.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.04.17 21.36	
4-Bromofluorobenzene	460-00-4	84	%	80-120	12.04.17 21.36	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 9**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-018	Date Collected:	12.01.17 12.30	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	12.05.17 12.51	U	1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<24.9	24.9	mg/kg	12.04.17 21.34	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<24.9	24.9	mg/kg	12.04.17 21.34	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<24.9	24.9	mg/kg	12.04.17 21.34	U	1
Total TPH 1005	PHC635	<24.9	24.9	mg/kg	12.04.17 21.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-135	12.04.17 21.34	
o-Terphenyl	84-15-1	78	%	70-130	12.04.17 21.34	

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Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 9**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-018	Date Collected:	12.01.17 12.30	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 21.55	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 21.55	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 21.55	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 21.55	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 21.55	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 21.55	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 21.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	80-120	12.04.17 21.55	
4-Bromofluorobenzene	460-00-4	85	%	80-120	12.04.17 21.55	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 10**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-019	Date Collected:	12.01.17 13.00	Sample Depth:	Surf

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.45**	4.94	mg/kg	12.05.17 12.57		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 21.55	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 21.55	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 21.55	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 21.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	12.04.17 21.55	
o-Terphenyl	84-15-1	94	%	70-130	12.04.17 21.55	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 10**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-019	Date Collected:	12.01.17 13.00	Sample Depth:	Surf
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 22.14	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 22.14	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 22.14	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 22.14	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 22.14	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 22.14	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 22.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	91	%	80-120	12.04.17 22.14	
4-Bromofluorobenzene	460-00-4	82	%	80-120	12.04.17 22.14	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 10**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-020	Date Collected:	12.01.17 13.30	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	12.05.17 13.03	U	1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034997				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 22.14	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 22.14	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 22.14	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 22.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	12.04.17 22.14	
o-Terphenyl	84-15-1	91	%	70-130	12.04.17 22.14	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 10**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-020	Date Collected:	12.01.17 13.30	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 23.10	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 23.10	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 23.10	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 23.10	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 23.10	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 23.10	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 23.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	80-120	12.04.17 23.10	
1,4-Difluorobenzene	540-36-3	96	%	80-120	12.04.17 23.10	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 12**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-021	Date Collected:	12.01.17 14.30	Sample Depth:	Surf

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.94	4.94	mg/kg	12.05.17 13.09	U	1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034916				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 17.50	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 17.50	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 17.50	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 17.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	12.04.17 17.50	
o-Terphenyl	84-15-1	82	%	70-130	12.04.17 17.50	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 12**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-021	Date Collected:	12.01.17 14.30	Sample Depth:	Surf
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 23.29	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 23.29	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 23.29	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 23.29	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 23.29	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 23.29	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 23.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	80-120	12.04.17 23.29	
1,4-Difluorobenzene	540-36-3	91	%	80-120	12.04.17 23.29	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 12**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-022	Date Collected:	12.01.17 15.00	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.92	4.92	mg/kg	12.05.17 13.15	U	1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034916				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<24.9	24.9	mg/kg	12.04.17 18.10	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<24.9	24.9	mg/kg	12.04.17 18.10	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<24.9	24.9	mg/kg	12.04.17 18.10	U	1
Total TPH 1005	PHC635	<24.9	24.9	mg/kg	12.04.17 18.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	12.04.17 18.10	
o-Terphenyl	84-15-1	88	%	70-130	12.04.17 18.10	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 12**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-022	Date Collected:	12.01.17 15.00	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.04.17 23.48	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.04.17 23.48	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.04.17 23.48	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.04.17 23.48	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.04.17 23.48	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.04.17 23.48	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.04.17 23.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	80-120	12.04.17 23.48	
4-Bromofluorobenzene	460-00-4	87	%	80-120	12.04.17 23.48	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 11**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-023	Date Collected:	12.01.17 15.30	Sample Depth:	Surf

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**93.3**	4.92	mg/kg	12.05.17 13.21		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034916				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<24.9	24.9	mg/kg	12.04.17 18.31	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<24.9	24.9	mg/kg	12.04.17 18.31	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<24.9	24.9	mg/kg	12.04.17 18.31	U	1
Total TPH 1005	PHC635	<24.9	24.9	mg/kg	12.04.17 18.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	12.04.17 18.31	
o-Terphenyl	84-15-1	84	%	70-130	12.04.17 18.31	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 11**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-023	Date Collected:	12.01.17 15.30	Sample Depth:	Surf
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.05.17 00.06	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.05.17 00.06	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.05.17 00.06	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.05.17 00.06	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.05.17 00.06	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.05.17 00.06	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.05.17 00.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	86	%	80-120	12.05.17 00.06	
1,4-Difluorobenzene	540-36-3	92	%	80-120	12.05.17 00.06	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 11**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-024	Date Collected:	12.01.17 16.00	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MNV			% Moisture:	
Analyst:	MNV	Date Prep:	12.05.17 09.00	Basis:	Wet Weight
Seq Number:	3034991				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**321**	4.95	mg/kg	12.05.17 13.27		1

Analytical Method:	TPH by Texas1005			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	12.04.17 11.00	Basis:	Wet Weight
Seq Number:	3034916				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
C6-C12 Gasoline Range Hydrocarbons	PHC612	<25.0	25.0	mg/kg	12.04.17 18.52	U	1
C12-C28 Diesel Range Hydrocarbons	PHCG1228	<25.0	25.0	mg/kg	12.04.17 18.52	U	1
C28-C35 Oil Range Hydrocarbons	PHCG2835	<25.0	25.0	mg/kg	12.04.17 18.52	U	1
Total TPH 1005	PHC635	<25.0	25.0	mg/kg	12.04.17 18.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	12.04.17 18.52	
o-Terphenyl	84-15-1	88	%	70-130	12.04.17 18.52	

Certificate of Analytical Results 569997

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 11**	Matrix:	Soil	Date Received:	12.04.17 10.50
Lab Sample Id:	569997-024	Date Collected:	12.01.17 16.00	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.04.17 11.20	Basis:	Wet Weight
Seq Number:	3034937				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0100	0.0100	mg/kg	12.05.17 00.24	U	1
Toluene	108-88-3	<0.0100	0.0100	mg/kg	12.05.17 00.24	U	1
Ethylbenzene	100-41-4	<0.0100	0.0100	mg/kg	12.05.17 00.24	U	1
m,p-Xylenes	179601-23-1	<0.0200	0.0200	mg/kg	12.05.17 00.24	U	1
o-Xylene	95-47-6	<0.0100	0.0100	mg/kg	12.05.17 00.24	U	1
Total Xylenes	1330-20-7	<0.0100	0.0100	mg/kg	12.05.17 00.24	U	1
Total BTEX		<0.0100	0.0100	mg/kg	12.05.17 00.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	86	%	80-120	12.05.17 00.24	
1,4-Difluorobenzene	540-36-3	91	%	80-120	12.05.17 00.24	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

QC Summary 569997

Remediation and Environmental Xperts, LLC

Steward

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3034981 — Matrix: Solid — Date Prep: 12.04.17
MB Sample Id: 7635398-1-BLK — LCS Sample Id: 7635398-1-BKS — LCSD Sample Id: 7635398-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	248	99	249	100	90-110	0	20	mg/kg	12.04.17 19:08	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3034991 — Matrix: Solid — Date Prep: 12.05.17
MB Sample Id: 7635431-1-BLK — LCS Sample Id: 7635431-1-BKS — LCSD Sample Id: 7635431-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	247	99	246	98	90-110	0	20	mg/kg	12.05.17 10:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3034981 — Matrix: Soil — Date Prep: 12.04.17
Parent Sample Id: 569113-013 — MS Sample Id: 569113-013 S — MSD Sample Id: 569113-013 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	710	249	964	102	965	102	90-110	0	20	mg/kg	12.04.17 21:38	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3034991 — Matrix: Soil — Date Prep: 12.05.17
Parent Sample Id: 569997-005 — MS Sample Id: 569997-005 S — MSD Sample Id: 569997-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	71.8	248	322	101	316	98	90-110	2	20	mg/kg	12.05.17 10:53	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3034991 — Matrix: Soil — Date Prep: 12.05.17
Parent Sample Id: 569997-015 — MS Sample Id: 569997-015 S — MSD Sample Id: 569997-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	21.8	248	282	105	286	107	90-110	1	20	mg/kg	12.05.17 12:16	

QC Summary 569997

Remediation and Environmental Xperts, LLC

Steward

Analytical Method: TPH by Texas1005 Prep Method: TX1005P
Seq Number: 3034916 Matrix: Solid Date Prep: 12.04.17
MB Sample Id: 7635383-1-BLK LCS Sample Id: 7635383-1-BKS LCSD Sample Id: 7635383-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	1000	1010	101	944	94	70-135	7	35	mg/kg	12.04.17 12:40	
C12-C28 Diesel Range Hydrocarbons	<25.0	1000	1010	101	967	97	70-135	4	35	mg/kg	12.04.17 12:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		116		109		70-135	%	12.04.17 12:40
o-Terphenyl	95		113		102		70-130	%	12.04.17 12:40

Analytical Method: TPH by Texas1005 Prep Method: TX1005P
Seq Number: 3034997 Matrix: Solid Date Prep: 12.04.17
MB Sample Id: 7635408-1-BLK LCS Sample Id: 7635408-1-BKS LCSD Sample Id: 7635408-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	1000	850	85	933	93	70-135	9	35	mg/kg	12.04.17 13:23	
C12-C28 Diesel Range Hydrocarbons	<25.0	1000	802	80	980	98	70-135	20	35	mg/kg	12.04.17 13:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		72		99		70-135	%	12.04.17 13:23
o-Terphenyl	101		77		97		70-130	%	12.04.17 13:23

Analytical Method: TPH by Texas1005 Prep Method: TX1005P
Seq Number: 3034916 Matrix: Soil Date Prep: 12.04.17
Parent Sample Id: 569990-016 MS Sample Id: 569990-016 S MSD Sample Id: 569990-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	999	928	93	967	97	70-135	4	35	mg/kg	12.04.17 17:07	
C12-C28 Diesel Range Hydrocarbons	54.7	999	1020	97	1030	98	70-135	1	35	mg/kg	12.04.17 17:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		107		70-135	%	12.04.17 17:07
o-Terphenyl	97		99		70-130	%	12.04.17 17:07

QC Summary 569997

Remediation and Environmental Xperts, LLC

Steward

Analytical Method: TPH by Texas1005 — Prep Method: TX1005P
Seq Number: 3034997 — Matrix: Soil — Date Prep: 12.04.17
Parent Sample Id: 569997-001 — MS Sample Id: 569997-001 S — MSD Sample Id: 569997-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
C6-C12 Gasoline Range Hydrocarbons	<25.0	998	930	93	847	85	70-135	9	35	mg/kg	12.04.17 14:39	
C12-C28 Diesel Range Hydrocarbons	54.9	998	1030	98	948	89	70-135	8	35	mg/kg	12.04.17 14:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		80		70-135	%	12.04.17 14:39
o-Terphenyl	93		90		70-130	%	12.04.17 14:39

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3034895 — Matrix: Solid — Date Prep: 12.04.17
MB Sample Id: 7635368-1-BLK — LCS Sample Id: 7635368-1-BKS — LCSD Sample Id: 7635368-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.113	113	0.116	115	70-130	3	35	mg/kg	12.04.17 07:42	
Toluene	<0.00200	0.100	0.108	108	0.109	108	70-130	1	35	mg/kg	12.04.17 07:42	
Ethylbenzene	<0.00200	0.100	0.104	104	0.106	105	71-129	2	35	mg/kg	12.04.17 07:42	
m,p-Xylenes	<0.00401	0.200	0.200	100	0.204	101	70-135	2	35	mg/kg	12.04.17 07:42	
o-Xylene	<0.00200	0.100	0.0971	97	0.0988	98	71-133	2	35	mg/kg	12.04.17 07:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		98		98		80-120	%	12.04.17 07:42
4-Bromofluorobenzene	80		93		97		80-120	%	12.04.17 07:42

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3034937 — Matrix: Solid — Date Prep: 12.04.17
MB Sample Id: 7635396-1-BLK — LCS Sample Id: 7635396-1-BKS — LCSD Sample Id: 7635396-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0100	0.500	0.566	113	0.558	112	70-130	1	35	mg/kg	12.04.17 17:15	
Toluene	<0.0100	0.500	0.526	105	0.527	105	70-130	0	35	mg/kg	12.04.17 17:15	
Ethylbenzene	<0.0100	0.500	0.506	101	0.503	101	71-129	1	35	mg/kg	12.04.17 17:15	
m,p-Xylenes	<0.0200	1.00	0.976	98	0.966	97	70-135	1	35	mg/kg	12.04.17 17:15	
o-Xylene	<0.0100	0.500	0.475	95	0.474	95	71-133	0	35	mg/kg	12.04.17 17:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	89		95		95		80-120	%	12.04.17 17:15
4-Bromofluorobenzene	81		89		95		80-120	%	12.04.17 17:15

QC Summary 569997

Remediation and Environmental Xperts, LLC

Steward

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3034895 — Matrix: Soil — Date Prep: 12.04.17
Parent Sample Id: 569948-001 — MS Sample Id: 569948-001 S — MSD Sample Id: 569948-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0883	89	0.0926	93	70-130	5	35	mg/kg	12.04.17 08:20	
Toluene	0.00636	0.0996	0.0833	77	0.0891	83	70-130	7	35	mg/kg	12.04.17 08:20	
Ethylbenzene	<0.00199	0.0996	0.0691	69	0.0743	74	71-129	7	35	mg/kg	12.04.17 08:20	X
m,p-Xylenes	<0.00398	0.199	0.135	68	0.142	71	70-135	5	35	mg/kg	12.04.17 08:20	X
o-Xylene	<0.00199	0.0996	0.0629	63	0.0707	71	71-133	12	35	mg/kg	12.04.17 08:20	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		97		80-120	%	12.04.17 08:20
4-Bromofluorobenzene	104		98		80-120	%	12.04.17 08:20

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3034937 — Matrix: Soil — Date Prep: 12.04.17
Parent Sample Id: 569997-011 — MS Sample Id: 569997-011 S — MSD Sample Id: 569997-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.0100	0.500	0.474	95	0.487	97	70-130	3	35	mg/kg	12.04.17 17:53	
Toluene	<0.0100	0.500	0.422	84	0.421	84	70-130	0	35	mg/kg	12.04.17 17:53	
Ethylbenzene	<0.0100	0.500	0.379	76	0.368	74	71-129	3	35	mg/kg	12.04.17 17:53	
m,p-Xylenes	<0.0200	1.00	0.719	72	0.712	71	70-135	1	35	mg/kg	12.04.17 17:53	
o-Xylene	<0.0100	0.500	0.356	71	0.351	70	71-133	1	35	mg/kg	12.04.17 17:53	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		96		80-120	%	12.04.17 17:53
4-Bromofluorobenzene	95		95		80-120	%	12.04.17 17:53

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Midland, Texas (432-704-5251)
Phoenix, Arizona (480-355-0900)
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CHAIN OF CUSTODY

Page 1 Of 3

Xenco Quote #

Xenco Job # 569997

Client / Reporting Information

Company Name / Branch: REX, LLC
Company Address: P. O. BOX 2699, BIG SPRING, TX 79721
Email: admin@oilandsaltremediation.com 432-213-3105
Annie@oilandsaltremediation.com
rex@oilandsaltremediation.com
Project Contact: Rex Rainey and/or Roylyn Welch
Samplers's Name

Project Information

Project Name/Number: Steward
Project Location: Heisenberg State COM. 7H
Invoice To: REX LLC
PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Chlorides	TPH + BTEX 8021	Field Comments
1	SPOT 1	SUR	12/1	9:30											✓	✓	
2	SPOT 1	12"	12/1	10:00											✓	✓	
3	SPOT 2	SUR	12/1	10:30											✓	✓	
4	SPOT 2	12"	12/1	11:00											✓	✓	
5	SPOT 3	SUR	12/1	11:30											✓	✓	
6	SPOT 3	12"	12/1	12:00											✓	✓	
7	SPOT 4	SUR	12/1	12:30											✓	✓	
8	SPOT 4	12"	12/1	1:00											✓	✓	
9	SPOT 5	SUR	12/1	1:30											✓	✓	
10	SPOT 5	12"	12/1	2:00											✓	✓	

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [x] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

Temp: 3.9 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 4.1

FE

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Ryan Millunzi	12/1 6:00	Annie Chandler	2	12/4 10:50	
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr. Factor
			3	4		4
			5			

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

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Midland, Texas (432-704-5251)

Phoenix, Arizona (480-355-0900)

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CHAIN OF CUSTODY

Page 2 Of 3

Xenco Quote #

Xenco Job # 569997

Client / Reporting Information

Company Name / Branch: REX, LLC

Company Address: P. O. BOX 2699, BIG SPRING, TX 79721

Email: admin@ollandsaltremediation.com 432-213-3105
Annie@ollandsaltremediation.com
rex@ollandsaltremediation.com

Project Contact: Rex Rainey and/or Roylyn Welch

Samplers's Name

Project Information

Project Name/Number: Steward

Project Location: Heisenberg State COM 007H

Invoice To: RK Rainey

PO Number:

Analytical Information

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Chlorides	TPH	+ BTEX	Field Comments
1	SPOT 6	SUR	12/1	9:00											✓	✓		
2	SPOT 6	12"	12/1	9:30											✓	✓		
3	SPOT 7	SUR	12/1	10:00											✓	✓		
4	SPOT 7	12"		10:30											✓	✓		
5	SPOT 8	SUR		11:00											✓	✓		
6	SPOT 8	12"		11:30											✓	✓		
7	SPOT 9	SUR		12:00											✓	✓		
8	SPOT 9	12"		12:30											✓	✓		
9	SPOT 10	SUR		1:00											✓	✓		
10	SPOT 10	12"		1:30											✓	✓		

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [x] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

Temp: 3.9 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 4.1

FED-E

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Ryan Mullins	12/1 10:00	Annie Chand	2	12/4	
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
				4	12/4 10:50	4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice: X — Cooler Temp. — Thermo. Corr. Factor

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Phoenix, Arizona (480-355-0900)

www.xenco.com

CHAIN OF CUSTODY

Page 3 Of 3

Xenco Quote #

Xenco Job # 569997

Client / Reporting Information

Company Name / Branch: REX, LLC

Company Address: P. O. BOX 2699, BIG SPRING, TX 79721

Email: admin@oilandsaltremediation.com 432-213-3105
Annie@oilandsaltremediation.com
rex@oilandsaltremediation.com

Project Contact: Rex Rainey and/or Roylyn Welch

Samplers's Name

Project Information

Project Name/Number: Steward

Project Location: Helsenberg State com.

Invoice To: Rex LLC

PO Number:

Analytical Information

No.	Field ID / Point of Collection	Collection: Sample Depth	Collection: Date	Collection: Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Chlorides	TPH	BTEX
1	SPOT 12	SUR	12/1	2:30											✓	✓	✓
2	SPOT 12	12"	12/1	3:00											✓	✓	✓
3	SPOT 11	SUR	12/1	3:30											✓	✓	✓
4	SPOT 11	12"	12/1	4:00											✓	✓	✓
5																	
6																	
7																	
8																	
9																	
10																	

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW =Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW =Ocean/Sea Water
WI = Wipe
O = Oil
WW= Waste Water
A = Air

Field Comments

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [X] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [ ] 3 Day EMERGENCY

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- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

Temp: 3.9 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 4.1

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Ryan Millunzi	12/1 6:00	Annie Chand	2		
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time: 12/4 10:50	Received By:
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. / Thermo. Corr. Factor

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Remediation and Environmental Xperts,

Date/ Time Received: 12/04/2017 10:50:00 AM

Work Order #: 569997

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Connie Hernandez Date: 12/04/2017

Checklist reviewed by: Holly Taylor Date: 12/04/2017

Certificate of Analysis Summary 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Project Name: Steward

Project Id:
Contact: Rex Rainey
Project Location: Heisenberg 7H

Date Received in Lab: Thu Dec-28-17 03:00 pm
Report Date: 04-JAN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	572250-001		572250-002		572250-003		572250-004		572250-005		572250-006	
	Field Id:	Spot 13		Spot 13		Spot 14		Spot 14		Spot 15		Spot 15	
	Depth:	Surface-		12- In		Surface-		12- In		Surface- In		12- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-28-17 08:06		Dec-28-17 08:15		Dec-28-17 08:30		Dec-28-17 08:45		Dec-28-17 09:00		Dec-28-17 09:15	
BTEX by EPA 8021B	***Extracted:***	Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00	
	Analyzed:	Dec-29-17 22:21		Dec-29-17 16:16		Dec-29-17 14:59		Dec-29-17 16:35		Dec-29-17 17:18		Dec-29-17 17:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Toluene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Ethylbenzene		0.00331	0.00201	0.00274	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
m,p-Xylenes		<0.00402	0.00402	<0.00398	0.00398	<0.00399	0.00399	<0.00403	0.00403	<0.00402	0.00402	<0.00402	0.00402
o-Xylene		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Total Xylenes		<0.00201	0.00201	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Total BTEX		0.00331	0.00201	0.00274	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00201	0.00201
Chloride by EPA 300	***Extracted:***	Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00	
	Analyzed:	Jan-02-18 11:39		Jan-02-18 11:46		Dec-29-17 13:52		Dec-29-17 14:13		Dec-29-17 14:20		Dec-29-17 14:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		238000	2480	4670	50.0	322	4.97	171	4.94	169	4.92	128	4.92
TPH by SW8015 Mod	***Extracted:***	Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00	
	Analyzed:	Dec-29-17 07:58		Dec-29-17 00:36		Dec-29-17 06:02		Dec-29-17 00:55		Dec-29-17 01:16		Dec-29-17 01:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		17.6	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		4850	15.0	<15.0	15.0	2820	15.0	1790	15.0	351	15.0	<15.0	15.0
Oil Range Hydrocarbons (ORO)		622	15.0	<15.0	15.0	3370	15.0	1960	15.0	59.2	15.0	<15.0	15.0
Total TPH		5490	15.0	<15.0	15.0	6190	15.0	3750	15.0	410	15.0	<15.0	15.0

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Final 1.000

Certificate of Analysis Summary 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Project Name: Steward

Project Id:
Contact: Rex Rainey
Project Location: Heisenberg 7H

Date Received in Lab: Thu Dec-28-17 03:00 pm
Report Date: 04-JAN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	572250-007		572250-008		572250-009		572250-010		572250-011		572250-012	
	Field Id:	Spot 16		Spot 16		Spot 17		Spot 17		Spot 18		Spot 18	
	Depth:	Surface- In		12- In		Surface- In		12- In		Surface- In		12- In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-28-17 09:30		Dec-28-17 09:45		Dec-28-17 10:00		Dec-28-17 10:15		Dec-28-17 10:30		Dec-28-17 10:45	
BTEX by EPA 8021B	***Extracted:***	Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00	
	Analyzed:	Dec-29-17 17:57		Dec-29-17 22:02		Dec-29-17 21:43		Dec-29-17 21:24		Dec-29-17 19:29		Dec-29-17 19:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	0.00552	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	0.0189	0.00200	0.00772	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00398	0.00398	<0.00396	0.00396	<0.00404	0.00404	0.0142	0.00401	0.00895	0.00399
o-Xylene		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	0.0107	0.00200	0.00479	0.00200
Total Xylenes		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	0.0249	0.00200	0.0137	0.00200
Total BTEX		<0.00199	0.00199	<0.00199	0.00199	<0.00198	0.00198	<0.00202	0.00202	0.0493	0.00200	0.0215	0.00200
Chloride by EPA 300	***Extracted:***	Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00	
	Analyzed:	Dec-29-17 14:34		Dec-29-17 14:41		Dec-29-17 14:55		Dec-29-17 15:15		Dec-29-17 15:36		Dec-29-17 15:43	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		123	4.99	12.8	4.93	133	4.90	8.85	4.90	2990	24.8	576	4.99
TPH by SW8015 Mod	***Extracted:***	Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00	
	Analyzed:	Dec-29-17 02:00		Dec-29-17 02:20		Dec-29-17 05:02		Dec-29-17 05:22		Dec-29-17 15:21		Dec-29-17 03:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	19.1	15.0	<15.0	15.0
Diesel Range Organics (DRO)		115	15.0	<15.0	15.0	78.2	15.0	<15.0	15.0	808	15.0	86.2	15.0
Oil Range Hydrocarbons (ORO)		29.0	15.0	<15.0	15.0	24.6	15.0	<15.0	15.0	99.2	15.0	<15.0	15.0
Total TPH		144	15.0	<15.0	15.0	103	15.0	<15.0	15.0	926	15.0	86.2	15.0

Holly Taylor
Project Manager

Certificate of Analysis Summary 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Project Name: Steward

Project Id:
Contact: Rex Rainey
Project Location: Heisenberg 7H

Date Received in Lab: Thu Dec-28-17 03:00 pm
Report Date: 04-JAN-18
Project Manager: Holly Taylor

Analysis Requested													
	Lab Id:	572250-013		572250-014		572250-015		572250-016					
	Field Id:	Spot 19		Spot 19		Spot 20		Spot 20					
	Depth:	surface- In		12- In		Surface- In		12- In					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Dec-28-17 11:00		Dec-28-17 11:15		Dec-28-17 11:30		Dec-28-17 11:45					
BTEX by EPA 8021B	***Extracted:***	Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00		Dec-29-17 08:00					
	Analyzed:	Dec-29-17 20:08		Dec-29-17 20:27		Dec-29-17 20:46		Dec-29-17 21:05					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199				
Toluene		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199				
Ethylbenzene		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199				
m,p-Xylenes		<0.00397	0.00397	<0.00402	0.00402	<0.00403	0.00403	<0.00398	0.00398				
o-Xylene		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199				
Total Xylenes		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199				
Total BTEX		<0.00198	0.00198	<0.00201	0.00201	<0.00202	0.00202	<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00		Dec-29-17 10:00					
	Analyzed:	Dec-29-17 15:50		Dec-29-17 15:57		Dec-29-17 16:04		Dec-29-17 16:11					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		578	4.91	16.0	4.91	186	4.95	<4.97	4.97				
TPH by SW8015 Mod	***Extracted:***	Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00		Dec-28-17 15:00					
	Analyzed:	Dec-29-17 05:42		Dec-29-17 04:02		Dec-29-17 04:22		Dec-29-17 04:42					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Diesel Range Organics (DRO)		104	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Oil Range Hydrocarbons (ORO)		16.5	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				
Total TPH		121	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0				

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Holly Taylor
Project Manager

Analytical Report 572250

for

Remediation and Environmental Xperts, LLC

Project Manager: Rex Rainey

Steward

04-JAN-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab code: TX01468):
Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12)
Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

04-JAN-18

Project Manager: **Rex Rainey**
Remediation and Environmental Xperts, LLC
P.O. Box 2699
Big Spring, TX 79720

Reference: XENCO Report No(s): **572250**
Steward
Project Address: Heisenberg 7H

Rex Rainey:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 572250. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 572250 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Holly Taylor

Holly Taylor
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 572250

Remediation and Environmental Xperts, LLC, Big Spring, T

Steward

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Spot 13	S	12-28-17 08:06	Surface	572250-001
Spot 13	S	12-28-17 08:15	12 In	572250-002
Spot 14	S	12-28-17 08:30	Surface	572250-003
Spot 14	S	12-28-17 08:45	12 In	572250-004
Spot 15	S	12-28-17 09:00	Surface In	572250-005
Spot 15	S	12-28-17 09:15	12 In	572250-006
Spot 16	S	12-28-17 09:30	Surface In	572250-007
Spot 16	S	12-28-17 09:45	12 In	572250-008
Spot 17	S	12-28-17 10:00	Surface In	572250-009
Spot 17	S	12-28-17 10:15	12 In	572250-010
Spot 18	S	12-28-17 10:30	Surface In	572250-011
Spot 18	S	12-28-17 10:45	12 In	572250-012
Spot 19	S	12-28-17 11:00	surface In	572250-013
Spot 19	S	12-28-17 11:15	12 In	572250-014
Spot 20	S	12-28-17 11:30	Surface In	572250-015
Spot 20	S	12-28-17 11:45	12 In	572250-016

CASE NARRATIVE

Client Name: Remediation and Environmental Xperts, LLC

Project Name: Steward

Project ID:
Work Order Number(s): *572250*

Report Date: *04-JAN-18*
Date Received: *12/28/2017*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3037330 BTEX by EPA 8021B

Lab Sample ID 572250-003 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 572250-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016.

The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 13**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-001	Date Collected:	12.28.17 08.06	Sample Depth:	Surface

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**238000**	2480	mg/kg	01.02.18 11.39		500

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**17.6**	15.0	mg/kg	12.29.17 07.58		1
Diesel Range Organics (DRO)	C10C28DRO	**4850**	15.0	mg/kg	12.29.17 07.58		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**622**	15.0	mg/kg	12.29.17 07.58		1
Total TPH	PHC635	**5490**	15.0	mg/kg	12.29.17 07.58		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	12.29.17 07.58	
o-Terphenyl	84-15-1	86	%	70-135	12.29.17 07.58	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 13**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-001	Date Collected:	12.28.17 08.06	Sample Depth:	Surface
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.29.17 22.21	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.29.17 22.21	U	1
Ethylbenzene	100-41-4	**0.00331**	0.00201	mg/kg	12.29.17 22.21		1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.29.17 22.21	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.29.17 22.21	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.29.17 22.21	U	1
Total BTEX		**0.00331**	0.00201	mg/kg	12.29.17 22.21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	86	%	80-120	12.29.17 22.21	
1,4-Difluorobenzene	540-36-3	99	%	80-120	12.29.17 22.21	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 13**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-002	Date Collected:	12.28.17 08.15	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4670**	50.0	mg/kg	01.02.18 11.46		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 00.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.29.17 00.36	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.29.17 00.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.29.17 00.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-135	12.29.17 00.36	
o-Terphenyl	84-15-1	79	%	70-135	12.29.17 00.36	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 13**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-002	Date Collected:	12.28.17 08.15	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.29.17 16.16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.29.17 16.16	U	1
Ethylbenzene	100-41-4	**0.00274**	0.00199	mg/kg	12.29.17 16.16		1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.29.17 16.16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.29.17 16.16	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.29.17 16.16	U	1
Total BTEX		**0.00274**	0.00199	mg/kg	12.29.17 16.16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	81	%	80-120	12.29.17 16.16	
1,4-Difluorobenzene	540-36-3	88	%	80-120	12.29.17 16.16	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 14**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-003	Date Collected:	12.28.17 08.30	Sample Depth:	Surface

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**322**	4.97	mg/kg	12.29.17 13.52		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 06.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	**2820**	15.0	mg/kg	12.29.17 06.02		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**3370**	15.0	mg/kg	12.29.17 06.02		1
Total TPH	PHC635	**6190**	15.0	mg/kg	12.29.17 06.02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	74	%	70-135	12.29.17 06.02	
o-Terphenyl	84-15-1	78	%	70-135	12.29.17 06.02	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 14**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-003	Date Collected:	12.28.17 08.30	Sample Depth:	Surface
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.29.17 14.59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.29.17 14.59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.29.17 14.59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.29.17 14.59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.29.17 14.59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.29.17 14.59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.29.17 14.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	86	%	80-120	12.29.17 14.59	
1,4-Difluorobenzene	540-36-3	95	%	80-120	12.29.17 14.59	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 14**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-004	Date Collected:	12.28.17 08.45	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**171**	4.94	mg/kg	12.29.17 14.13		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 00.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	**1790**	15.0	mg/kg	12.29.17 00.55		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**1960**	15.0	mg/kg	12.29.17 00.55		1
Total TPH	PHC635	**3750**	15.0	mg/kg	12.29.17 00.55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	12.29.17 00.55	
o-Terphenyl	84-15-1	83	%	70-135	12.29.17 00.55	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 14**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-004	Date Collected:	12.28.17 08.45	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.29.17 16.35	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.29.17 16.35	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.29.17 16.35	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.29.17 16.35	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.29.17 16.35	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.29.17 16.35	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.29.17 16.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	80-120	12.29.17 16.35	
1,4-Difluorobenzene	540-36-3	92	%	80-120	12.29.17 16.35	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 15**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-005	Date Collected:	12.28.17 09.00	Sample Depth:	Surface In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**169**	4.92	mg/kg	12.29.17 14.20		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 01.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**351**	15.0	mg/kg	12.29.17 01.16		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**59.2**	15.0	mg/kg	12.29.17 01.16		1
Total TPH	PHC635	**410**	15.0	mg/kg	12.29.17 01.16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	12.29.17 01.16	
o-Terphenyl	84-15-1	81	%	70-135	12.29.17 01.16	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 15**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-005	Date Collected:	12.28.17 09.00	Sample Depth:	Surface In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.29.17 17.18	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.29.17 17.18	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.29.17 17.18	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.29.17 17.18	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.29.17 17.18	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.29.17 17.18	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.29.17 17.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	80-120	12.29.17 17.18	
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.29.17 17.18	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 15**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-006	Date Collected:	12.28.17 09.15	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**128**	4.92	mg/kg	12.29.17 14.27		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 01.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.29.17 01.38	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.29.17 01.38	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.29.17 01.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	12.29.17 01.38	
o-Terphenyl	84-15-1	86	%	70-135	12.29.17 01.38	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 15**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-006	Date Collected:	12.28.17 09.15	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.29.17 17.37	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.29.17 17.37	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.29.17 17.37	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.29.17 17.37	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.29.17 17.37	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.29.17 17.37	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.29.17 17.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	80-120	12.29.17 17.37	
4-Bromofluorobenzene	460-00-4	89	%	80-120	12.29.17 17.37	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 16**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-007	Date Collected:	12.28.17 09.30	Sample Depth:	Surface In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**123**	4.99	mg/kg	12.29.17 14.34		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 02.00	U	1
Diesel Range Organics (DRO)	C10C28DRO	**115**	15.0	mg/kg	12.29.17 02.00		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**29.0**	15.0	mg/kg	12.29.17 02.00		1
Total TPH	PHC635	**144**	15.0	mg/kg	12.29.17 02.00		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-135	12.29.17 02.00	
o-Terphenyl	84-15-1	70	%	70-135	12.29.17 02.00	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 16**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-007	Date Collected:	12.28.17 09.30	Sample Depth:	Surface In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.29.17 17.57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.29.17 17.57	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.29.17 17.57	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.29.17 17.57	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.29.17 17.57	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.29.17 17.57	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.29.17 17.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	80-120	12.29.17 17.57	
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.29.17 17.57	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 16**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-008	Date Collected:	12.28.17 09.45	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**12.8**	4.93	mg/kg	12.29.17 14.41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 02.20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.29.17 02.20	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.29.17 02.20	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.29.17 02.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	12.29.17 02.20	
o-Terphenyl	84-15-1	83	%	70-135	12.29.17 02.20	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 16**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-008	Date Collected:	12.28.17 09.45	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.29.17 22.02	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.29.17 22.02	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.29.17 22.02	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.29.17 22.02	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.29.17 22.02	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.29.17 22.02	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.29.17 22.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	84	%	80-120	12.29.17 22.02	
1,4-Difluorobenzene	540-36-3	93	%	80-120	12.29.17 22.02	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 17**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-009	Date Collected:	12.28.17 10.00	Sample Depth:	Surface In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**133**	4.90	mg/kg	12.29.17 14.55		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 05.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	**78.2**	15.0	mg/kg	12.29.17 05.02		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**24.6**	15.0	mg/kg	12.29.17 05.02		1
Total TPH	PHC635	**103**	15.0	mg/kg	12.29.17 05.02		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-135	12.29.17 05.02	
o-Terphenyl	84-15-1	70	%	70-135	12.29.17 05.02	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 17**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-009	Date Collected:	12.28.17 10.00	Sample Depth:	Surface In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.29.17 21.43	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.29.17 21.43	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.29.17 21.43	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	12.29.17 21.43	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.29.17 21.43	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.29.17 21.43	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.29.17 21.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	80-120	12.29.17 21.43	
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.29.17 21.43	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 17**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-010	Date Collected:	12.28.17 10.15	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.85**	4.90	mg/kg	12.29.17 15.15		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 05.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.29.17 05.22	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.29.17 05.22	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.29.17 05.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-135	12.29.17 05.22	
o-Terphenyl	84-15-1	81	%	70-135	12.29.17 05.22	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 17**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-010	Date Collected:	12.28.17 10.15	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.29.17 21.24	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.29.17 21.24	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.29.17 21.24	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	12.29.17 21.24	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.29.17 21.24	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.29.17 21.24	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.29.17 21.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	80-120	12.29.17 21.24	
1,4-Difluorobenzene	540-36-3	93	%	80-120	12.29.17 21.24	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 18**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-011	Date Collected:	12.28.17 10.30	Sample Depth:	Surface In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2990**	24.8	mg/kg	12.29.17 15.36		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**19.1**	15.0	mg/kg	12.29.17 15.21		1
Diesel Range Organics (DRO)	C10C28DRO	**808**	15.0	mg/kg	12.29.17 15.21		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**99.2**	15.0	mg/kg	12.29.17 15.21		1
Total TPH	PHC635	**926**	15.0	mg/kg	12.29.17 15.21		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-135	12.29.17 15.21	
o-Terphenyl	84-15-1	77	%	70-135	12.29.17 15.21	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 18**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-011	Date Collected:	12.28.17 10.30	Sample Depth:	Surface In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.29.17 19.29	U	1
Toluene	108-88-3	**0.00552**	0.00200	mg/kg	12.29.17 19.29		1
Ethylbenzene	100-41-4	**0.0189**	0.00200	mg/kg	12.29.17 19.29		1
m,p-Xylenes	179601-23-1	**0.0142**	0.00401	mg/kg	12.29.17 19.29		1
o-Xylene	95-47-6	**0.0107**	0.00200	mg/kg	12.29.17 19.29		1
Total Xylenes	1330-20-7	**0.0249**	0.00200	mg/kg	12.29.17 19.29		1
Total BTEX		**0.0493**	0.00200	mg/kg	12.29.17 19.29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	80-120	12.29.17 19.29	
1,4-Difluorobenzene	540-36-3	88	%	80-120	12.29.17 19.29	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 18**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-012	Date Collected:	12.28.17 10.45	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**576**	4.99	mg/kg	12.29.17 15.43		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 03.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	**86.2**	15.0	mg/kg	12.29.17 03.41		1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.29.17 03.41	U	1
Total TPH	PHC635	**86.2**	15.0	mg/kg	12.29.17 03.41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	74	%	70-135	12.29.17 03.41	
o-Terphenyl	84-15-1	73	%	70-135	12.29.17 03.41	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 18**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-012	Date Collected:	12.28.17 10.45	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.29.17 19.49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.29.17 19.49	U	1
Ethylbenzene	100-41-4	**0.00772**	0.00200	mg/kg	12.29.17 19.49		1
m,p-Xylenes	179601-23-1	**0.00895**	0.00399	mg/kg	12.29.17 19.49		1
o-Xylene	95-47-6	**0.00479**	0.00200	mg/kg	12.29.17 19.49		1
Total Xylenes	1330-20-7	**0.0137**	0.00200	mg/kg	12.29.17 19.49		1
Total BTEX		**0.0215**	0.00200	mg/kg	12.29.17 19.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	80-120	12.29.17 19.49	
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.29.17 19.49	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 19**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-013	Date Collected:	12.28.17 11.00	Sample Depth:	surface In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**578**	4.91	mg/kg	12.29.17 15.50		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 05.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	**104**	15.0	mg/kg	12.29.17 05.42		1
Oil Range Hydrocarbons (ORO)	PHCG2835	**16.5**	15.0	mg/kg	12.29.17 05.42		1
Total TPH	PHC635	**121**	15.0	mg/kg	12.29.17 05.42		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	71	%	70-135	12.29.17 05.42	
o-Terphenyl	84-15-1	71	%	70-135	12.29.17 05.42	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 19**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-013	Date Collected:	12.28.17 11.00	Sample Depth:	surface In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.29.17 20.08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	12.29.17 20.08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.29.17 20.08	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	12.29.17 20.08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.29.17 20.08	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	12.29.17 20.08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	12.29.17 20.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.29.17 20.08	
4-Bromofluorobenzene	460-00-4	94	%	80-120	12.29.17 20.08	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 19**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-014	Date Collected:	12.28.17 11.15	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**16.0**	4.91	mg/kg	12.29.17 15.57		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 04.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.29.17 04.02	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.29.17 04.02	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.29.17 04.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	73	%	70-135	12.29.17 04.02	
o-Terphenyl	84-15-1	73	%	70-135	12.29.17 04.02	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 19**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-014	Date Collected:	12.28.17 11.15	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.29.17 20.27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.29.17 20.27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.29.17 20.27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	12.29.17 20.27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	12.29.17 20.27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	12.29.17 20.27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	12.29.17 20.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	89	%	80-120	12.29.17 20.27	
4-Bromofluorobenzene	460-00-4	86	%	80-120	12.29.17 20.27	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 20**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-015	Date Collected:	12.28.17 11.30	Sample Depth:	Surface In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**186**	4.95	mg/kg	12.29.17 16.04		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 04.22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.29.17 04.22	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.29.17 04.22	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.29.17 04.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-135	12.29.17 04.22	
o-Terphenyl	84-15-1	70	%	70-135	12.29.17 04.22	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 20**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-015	Date Collected:	12.28.17 11.30	Sample Depth:	Surface In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.29.17 20.46	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.29.17 20.46	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.29.17 20.46	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.29.17 20.46	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.29.17 20.46	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.29.17 20.46	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.29.17 20.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	80-120	12.29.17 20.46	
1,4-Difluorobenzene	540-36-3	93	%	80-120	12.29.17 20.46	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 20**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-016	Date Collected:	12.28.17 11.45	Sample Depth:	12 In

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	OJS			% Moisture:	
Analyst:	OJS	Date Prep:	12.29.17 10.00	Basis:	Wet Weight
Seq Number:	3037205				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<4.97	4.97	mg/kg	12.29.17 16.11	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	JUM			% Moisture:	
Analyst:	JUM	Date Prep:	12.28.17 15.00	Basis:	Wet Weight
Seq Number:	3037191				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	12.29.17 04.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	12.29.17 04.42	U	1
Oil Range Hydrocarbons (ORO)	PHCG2835	<15.0	15.0	mg/kg	12.29.17 04.42	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	12.29.17 04.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-135	12.29.17 04.42	
o-Terphenyl	84-15-1	75	%	70-135	12.29.17 04.42	

Certificate of Analytical Results 572250

Remediation and Environmental Xperts, LLC, Big Spring, TX

Steward

Sample Id:	**Spot 20**	Matrix:	Soil	Date Received:	12.28.17 15.00
Lab Sample Id:	572250-016	Date Collected:	12.28.17 11.45	Sample Depth:	12 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	12.29.17 08.00	Basis:	Wet Weight
Seq Number:	3037330				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.29.17 21.05	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	12.29.17 21.05	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	12.29.17 21.05	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	12.29.17 21.05	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	12.29.17 21.05	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	12.29.17 21.05	U	1
Total BTEX		<0.00199	0.00199	mg/kg	12.29.17 21.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	80-120	12.29.17 21.05	
1,4-Difluorobenzene	540-36-3	94	%	80-120	12.29.17 21.05	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

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

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QC Summary 572250

Remediation and Environmental Xperts, LLC

Steward

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3037205 — Matrix: Solid — Date Prep: 12.29.17
MB Sample Id: 7636757-1-BLK — LCS Sample Id: 7636757-1-BKS — LCSD Sample Id: 7636757-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	248	99	241	96	90-110	3	20	mg/kg	12.29.17 12:56	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3037205 — Matrix: Soil — Date Prep: 12.29.17
Parent Sample Id: 572154-003 — MS Sample Id: 572154-003 S — MSD Sample Id: 572154-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	179	248	425	99	440	105	90-110	3	20	mg/kg	12.29.17 13:17	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3037205 — Matrix: Soil — Date Prep: 12.29.17
Parent Sample Id: 572250-009 — MS Sample Id: 572250-009 S — MSD Sample Id: 572250-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	133	245	388	104	375	99	90-110	3	20	mg/kg	12.29.17 15:02	

Analytical Method: TPH by SW8015 Mod — Prep Method: TX1005P
Seq Number: 3037191 — Matrix: Solid — Date Prep: 12.28.17
MB Sample Id: 7636779-1-BLK — LCS Sample Id: 7636779-1-BKS — LCSD Sample Id: 7636779-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	840	84	918	92	70-135	9	35	mg/kg	12.28.17 22:15	
Diesel Range Organics (DRO)	<15.0	1000	838	84	917	92	70-135	9	35	mg/kg	12.28.17 22:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		89		96		70-135	%	12.28.17 22:15
o-Terphenyl	91		91		100		70-135	%	12.28.17 22:15

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

QC Summary 572250

Remediation and Environmental Xperts, LLC

Steward

Analytical Method: TPH by SW8015 Mod | Prep Method: TX1005P
Seq Number: 3037191 | Matrix: Soil | Date Prep: 12.28.17
Parent Sample Id: 572154-003 | MS Sample Id: 572154-003 S | MSD Sample Id: 572154-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	787	79	881	88	70-135	11	35	mg/kg	12.28.17 23:56	
Diesel Range Organics (DRO)	<15.0	1000	777	78	877	88	70-135	12	35	mg/kg	12.28.17 23:56	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	85		105		70-135	%	12.28.17 23:56
o-Terphenyl	83		92		70-135	%	12.28.17 23:56

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3037330 | Matrix: Solid | Date Prep: 12.29.17
MB Sample Id: 7636889-1-BLK | LCS Sample Id: 7636889-1-BKS | LCSD Sample Id: 7636889-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0885	89	0.0859	86	70-130	3	35	mg/kg	12.29.17 12:46	
Toluene	<0.00200	0.100	0.0830	83	0.0809	81	70-130	3	35	mg/kg	12.29.17 12:46	
Ethylbenzene	<0.00200	0.100	0.0932	93	0.0898	90	71-129	4	35	mg/kg	12.29.17 12:46	
m,p-Xylenes	<0.00401	0.200	0.184	92	0.177	89	70-135	4	35	mg/kg	12.29.17 12:46	
o-Xylene	<0.00200	0.100	0.0857	86	0.0828	83	71-133	3	35	mg/kg	12.29.17 12:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	93		95		99		80-120	%	12.29.17 12:46
4-Bromofluorobenzene	91		98		97		80-120	%	12.29.17 12:46

Analytical Method: BTEX by EPA 8021B | Prep Method: SW5030B
Seq Number: 3037330 | Matrix: Soil | Date Prep: 12.29.17
Parent Sample Id: 572250-003 | MS Sample Id: 572250-003 S | MSD Sample Id: 572250-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0669	67	0.0538	54	70-130	22	35	mg/kg	12.29.17 13:23	X
Toluene	<0.00199	0.0996	0.0468	47	0.0365	37	70-130	25	35	mg/kg	12.29.17 13:23	X
Ethylbenzene	<0.00199	0.0996	0.0365	37	0.0276	28	71-129	28	35	mg/kg	12.29.17 13:23	X
m,p-Xylenes	<0.00398	0.199	0.0696	35	0.0522	26	70-135	29	35	mg/kg	12.29.17 13:23	X
o-Xylene	<0.00199	0.0996	0.0348	35	0.0263	26	71-133	28	35	mg/kg	12.29.17 13:23	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		80-120	%	12.29.17 13:23
4-Bromofluorobenzene	102		102		80-120	%	12.29.17 13:23

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

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]

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

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

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Page 1 of 2

Xenco Quote #

Xenco Job # 572250

Client / Reporting Information

Company Name / Branch: REX, LLC

Company Address: P. O. BOX 2699 BIG SPRING, TX 79721

Email: admin@oilandsaltremediation.com 432-213-3105
Annie@oilandsaltremediation.com
rex@oilandsaltremediation.com

Project Contact: Rex Rainey and/or Roylyn Welch

Samplers's Name

Project Information

Project Name/Number: Steward

Project Location: Heisenberg 7H

Invoice To: REX, LLC

PO Number:

Analytical Information

Matrix Codes: W = Water; S = Soil/Sed/Solid; GW = Ground Water; DW = Drinking Water; P = Product; SW = Surface water; SL = Sludge; OW = Ocean/Sea Wat; WI = Wipe; O = Oil; WW = Waste Water; A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Chlorides	TPH SW 8015	BTEX	Field Comments
1	Spot 13	Surface	12/28	8:06											✓	✓	✓	
2	Spot 13	12"	12/28	8:15											✓	✓	✓	
3	Spot 14	Surface	12/28	8:36											✓	✓	✓	
4	Spot 14	12"	12/28	8:45											✓	✓	✓	
5	Spot 15	Surface	12/28	9:00											✓	✓	✓	
6	Spot 15	12"	12/28	9:15											✓	✓	✓	
7	Spot 16	Surface	12/28	9:30											✓	✓	✓	
8	Spot 16	12"	12/28	9:45											✓	✓	✓	
9	Spot 17	Surface	12/28	10:00											✓	✓	✓	
10	Spot 17	12"	12/28	10:15											✓	✓	✓	

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [ ] Contract TAT
- [x] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

Temp: 5.4 IR ID:R-8
CF:(0-6: -0.2°C)
(6-23: +0.2°C)
Corrected Temp: 5.2

FED-EX / UPS: Tracking #

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	Ryan Millunzi	12/28/17 2:45		2		2
3	Relinquished by:	Date Time:	Received By: 12/28 3:00	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice: X — Cooler Temp. — Thermo. Corr. Factor

Notice: Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the Client if such loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

CHAIN OF CUSTODY

Page 2 Of 2

XENCO LABORATORIES

Setting the Standard since 1990

Stafford,Texas (281-240-4200) | San Antonio, Texas (210-509-3334) | Phoenix, Arizona (480-355-0900)

Dallas Texas (214-902-0300) | Midland, Texas (432-704-5251)

www.xenco.com

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No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Chlorides	TPH	BTEX	Field Comments
1	Spot 18	Surface	12/28	10:30											✓	✓	✓	
2	Spot 18	12"	12/28	10:45											✓	✓	✓	
3	Spot 19	Surface	12/28	11:00											✓	✓	✓	
4	Spot 19	12"	12/28	11:15											✓	✓	✓	
5	Spot 20	Surface	12/28	11:30											✓	✓	✓	
6	Spot 20	12"	12/28	11:45											✓	✓	✓	
7																		
8																		
9																		
10																		

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1	Ryan Millunzi	12/28/17 2:45		2		2
3	Relinquished by:	Date Time:	Received By: 12.28 3:00	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice: Y / Cooler Temp. / Thermo. Corr. Factor

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XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Remediation and Environmental Xperts,

Date/ Time Received: 12/28/2017 03:00:00 PM

Work Order #: 572250

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Shawnee Smith Date: 12/28/2017
Shawnee Smith

Checklist reviewed by: Holly Taylor Date: 12/29/2017
Holly Taylor

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 266674

CONDITIONS

Operator: STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	OGRID: 371682
	Action Number: 266674
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	1/19/2024