

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

QUESTIONS

Action 140421

QUESTIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 140421
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source	
<i>Please answer all of the questions in this group.</i>	
Site Name	20220826-0245-water Sunoco Booster Pump
Date Release Discovered	08/26/2022
Surface Owner	Private

Incident Details	
<i>Please answer all of the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 23 BBL Recovered: 10 BBL Lost: 13 BBL]
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 140421

QUESTIONS (continued)

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 140421
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by 19.15.29.7(A) NMAC	No, minor release.
Reasons why this would be considered a submission for a notification of a major release	
If YES, was immediate notice given to the OCD, by whom	Not answered.
If YES, was immediate notice given to the OCD, to whom	Not answered.
If YES, was immediate notice given to the OCD, when	Not answered.
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	Not answered.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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 prepare and attach a narrative of actions to date in the follow-up C-141 submission. 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 prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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ACKNOWLEDGMENTS

Action 140421

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	Action Number: 140421
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	I acknowledge the fact that 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.
<input checked="" type="checkbox"/>	I acknowledge the fact that, 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.

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CONDITIONS

Action 140421

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 140421
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
aparker1969	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	9/2/2022

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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	nAPP2224534981
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Ameredev Operating, LLC	OGRID: 372224
Contact Name: Shane M ^c Neely	Contact Telephone: (737) 300-4700
Contact email: smcneely@ameredev.com	Incident # (assigned by OCD) nAPP2224534981
Contact mailing address: 2901 Via Fortuna, Suite 600 Austin, Texas 78746	

Location of Release Source

Latitude 32.1509255 _____ Longitude -103.2813371 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 20220826-0245-water Sunoco Booster Pump	Site Type Pipeline Riser along ROW
Date Release Discovered 08/26/2022 @ 02:45am	API# (if applicable)

Unit Letter	Section	Township	Range	County
A	8	25S	36E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Intrepid Potash)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 22.9	Volume Recovered (bbls) 10
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

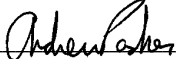
Cause of Release: Valve/gasket failure on diesel booster pump

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<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p>	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Andrew Parker</u>	Title: <u>Env. Scientist</u>
Signature: <u></u>	Date: <u>09/02/2022</u>
email: <u>aparker@ameredev.com</u>	Telephone: <u>970-570-9535</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>12/27/2022</u>

Spill Dimensions to Volume of Release			
Input	volume of affected soil	[feet^3]	3680.83
Input	Porosity: typically is .35 to .40 for most soils	[-]	0.35
Input	Proportion of porosity filled with release fluid [0,1]	[-]	0.10
Output	volume of fluid	[feet^3]	128.8
		[gal]	963.7
		Barrels	22.9
		Recovered	Net
		10	12.9

From GIS	
Sq. Ft	8834
Depth (ft)	0.416667
Cu. Ft	3680.833

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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? <u>Plate 2</u>	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? <u>Plate 4</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)? <u>Plate 4</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? <u>Plate 5</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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? <u>Plate 3</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? <u>Plate 3</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? <u>Plate 3</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland? <u>Plate 6</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine? <u>Plate 7</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology? <u>Plate 8</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain? <u>Plate 9</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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.*

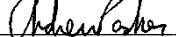
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data.
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile 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.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2224534981
District RP	
Facility ID	
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: Andrew ParkerTitle: Env. ScientistSignature: Date: December 27, 2022email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn HarimonDate: 12/27/2022

Incident ID	nAPP2224534981
District RP	
Facility ID	
Application ID	

Remediation Plan

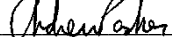
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Andrew ParkerTitle: Env. ScientistSignature: Date: December 27, 2022email: aparker@ameredev.comTelephone: 970-570-9535**OCD Only**Received by: Jocelyn Harimon Date: 12/27/2022☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral ApprovedSignature: Date: 01/23/2023



AmeredeV II, LLC

2901 Via Fortuna Suite 600 • Austin, Texas 78746 • Phone (737) 300-4700

December 27, 2022

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

RE: Deferral Request
Incident ID: nAPP2224534981
Sunoco Booster Pump
AEP #: 20220826-0245-water

NMOCD:

AmeredeV Operating submits this deferral request for incident number nAPP2224534981. We respectfully ask NMOCD for

1. Remediation deferral around production equipment and utilities within the right-of-way (ROW).
2. Deferral for areas on-site currently being used for oil and gas operations.
3. AmeredeV has completed remediation and restoration for areas off-site, within the right-of-way, to meet regulatory closure criteria.

The release occurred on August 26, 2022 from the failure of a valve/gasket on the diesel booster pump. The release flowed along a pipeline right-of-way (ROW) used for oil and gas operations, then onto an active production site. The release is located on Fee surface. The release did not impact surface or groundwater. The calculated volume of released produced water was 22.9 barrels with 10 barrels recovered.

Incident ID: nAPP2224534981

Sunoco Booster Pump

AEP #: 20220826-0245-water

Characterization

The following sections address items as described in 19.15.29.11.A, paragraphs 1- 4. Please refer to the C-141 characterization checklist for additional setback criteria and verification (Plates 2-9).

1.1. Site Map

Plate 1 shows the release extent relative to the production site, production facilities, ROW and nearby utilities. The source of the release is located at 32.1509255, -103.2813371 (Lat, Long; NAD83). Horizontal extent of the release was determined by visual observations. The release extent was mapped utilizing GPS technology with sub-meter accuracy. The release extent covered an area of approximately 8,722 sq. ft.

This release occurred within the same extent as Incident ID nAPP2213130408 (May 2022), sharing the same source point and partial release extent overlap. The overlap extent area is further discussed in Section 3: Deferral Request, below. The approved deferred area from the May 2022 incident is shown on Plate 12.

Figure 1 shows the source of the release. Figure 2 shows the release along the ROW.



Figure 1: Photo of source point, photo left. Release flowed north along the ROW and onto the production site at the tank battery. 08/26/2022. 103.2813337°W 32.1509260°N

12/27/2022

Released to Imaging: 1/23/2023 1:17:56 PM

Incident ID: nAPP2224534981

Sunoco Booster Pump

AEP #: 20220826-0245-water



Figure 2: Photo of release extent along ROW and west edge of production site. Flow path toward the tank battery is visible at photo right foreground. 08/27/2022. 32.1510503 N, 103.2812122 W.

1.2. Depth to Ground Water

To determine depth-to-water within ½-mile of the release extent, Ameredev Operating began a depth-to-water borehole program mid-September 2022. The depth-to-water program:

- Boreholes will be located throughout Ameredev Operating leases in New Mexico.
- Located within ½-mile of identified areas, and
- Drilled to a depth of approximately 105-feet below ground surface, left open for 72-hours, then gauged for the presence of groundwater within the upper 100-feet of ground surface.

The depth to water borehole nearest to the release area is mapped on Plate 2:

1. MISC-407 (CP-1918 POD 1) is located 0.29-miles east. Depth of the water well is >101-feet, no water was encountered; borehole has been plugged. The Well Log is presented in Appendix B.

1.3. Wellhead Protection Area

Plate 3 shows that the release extent is:

- Not within incorporated municipal boundaries or within a defined municipal fresh water well field.
- Not within ½-mile private and domestic water sources (wells and springs).
- Not 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
- Not within 1000 feet of any other fresh water well or spring.

1.4. Distance to Nearest Significant Water Course

Plate 4 shows that the release extent is:

- Not within ½ mile of any significant water course.

12/27/2022

Incident ID: nAPP2224534981

Sunoco Booster Pump

AEP #: 20220826-0245-water

- Not within 300 feet of a continuously flowing watercourse or any other significant watercourse.
- Not within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).

The closest significant water course is an intermittent stream 0.73 miles to the southwest of the release extent.

1.5. Soil/Waste Characteristics

The release occurred in an area where depth to water is greater than 100 ft below ground surface (bgs) and on an active production site and ROW used for oil and gas operations. The released fluid was from a treated produced water flowline. As the released fluid is known to contain high chlorides, no characterization samples were collected.

Excavation along the ROW occurred within the area remediated for the May 2022 release. The lithology is described as:

- 0 to 2 feet. Topsoil/sand backfill
- 2 to 4.5 feet. Compacted caliche backfill.
- 4.5 feet (total depth). Hard caliche.

2. Remediation & Restoration

The release extent was divided into sample grids of not more than 200 sq ft. A soil sample was collected from each off site (ROW) grid base and along excavation walls for laboratory analysis of chloride, TPH, Benzene, and BTEX.

- Plate 10 shows the confirmation sample grid layout with associated square footage.
- Plate 11 shows the confirmation sample locations.
- Plate 12 shows the confirmation sample locations relative to the approved deferral area from the May 2022 release.
- Table A shows the coordinates of the confirmation sample points.

2.1. Off-Site Areas

Ameredeve excavated within the off-site release extent until the walls and bases met Closure Criteria per Table 1 of 19.15.29 NMAC as defined below except for the areas around production equipment which are included in the deferral request below.

- For the release areas off-site and where depth to water is > 100 ft (with NMOCD approved depth to water determination):
 - Upper 4-feet
 - Chloride < 600 mg/kg
 - TPH (GRO + DRO + MRO) < 100 mg/kg

12/27/2022

Incident ID: nAPP2224534981

Sunoco Booster Pump

AEP #: 20220826-0245-water

- BTEX < 50 mg/kg
- Benzene < 10 mg/kg
- Below 4-feet
 - Chloride < 20,000 mg/kg
 - TPH (GRO + DRO + MRO) < 2,500 mg/kg
 - TPH (GRO + DRO) < 1,000 mg/kg
 - BTEX < 50 mg/kg
 - Benzene < 10 mg/kg

Summary of analytical is presented in Table B. Laboratory Certificates of Analysis are presented in Appendix C.

3. Deferral Request

Ameredev respectfully asks NMOCD for deferral of impacted areas immediately around production equipment (portions of grids G-01, G-04 and G-05) and on the active production site (grids G-17.2 and G-27 through G-43). These areas meet the criteria for deferral request as defined in 19.15.29.12.C.(2):

- 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.

Production equipment is located at the southwest edge of the release extent (portions of G-01, G-04 and G-05). The top 0.5-feet of impacted soil was removed in these grid portions to reduce mass load of chloride. Further remediation around this production equipment has the potential to cause structure instability resulting in major facility deconstruction or cause an “imminent risk to human health” (19.15.29.12.C.(2) NMAC).

As shown in Figures 3 through 5, pressurized produced water and gas lines are present throughout the production area within the ROW. The flowlines are both at the surface and buried. An unauthorized release from pipeline failure or line strike during remediation and sampling could cause human dismemberment or death.

The operating flowline pressures and the presence of hydrogen sulfide (H₂S is immediately fatal when concentrations are over 500-1000 ppm) is summarized below.

- The recycled produced water lines are currently transferring water to fracking operations and disposal facilities. Operating range for the flowlines are 140 – 180 psi (max. 200 psi). Flowrate Range is 40,000 – 100,000 barrels of water per day (bwpd).
- The 16” low pressure gas line transfers sour gas (30,000+ ppm H₂S) at a pressure between 50-100 psi.

12/27/2022

Incident ID: nAPP2224534981

Sunoco Booster Pump

AEP #: 20220826-0245-water

- A steel high pressure sweet gas line that provides gas lift to wells has an operating range of 1000 – 1400 psi.

To safely obtain soil samples for vertical delineation at grids G-01, G-04, and G-05 would require shutting down the flowlines for a 20 hour period; two weeks if a line strike occurs. Keeping these flowlines operational is critical to daily operations. Shutting down the flowlines would cause a monumental loss of production.



Figure 3: View of off-site production equipment along ROW at grids G-01, G-04 and G-05. The upper 0.5-feet of impacted material has been removed.

Date Taken: 2022-10-22 13:25:55. GPS: 32.1508480, -103.2812928



Figure 4: Production equipment along ROW at grids G-01, G-04 and G-05. Photo from remote camera. Capture date: 11/14/2022.

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**Figure 5: Production equipment adjacent to west edge of grid G-04.
Date: 11/13/2022**

Sampling for horizontal delineation around this production equipment met the most stringent closure criteria for constituents of concern (GS-01 S, GS-04 W and GS-08 W).

On-site soil samples were collected to provide comprehensive vertical and horizontal delineation. This release occurred with an overlap to a prior release extent (Incident nAPP2213130408; May 2022) where deferral of impacted areas on-site was approved by NMOCD.

Horizontal delineation sampling was limited in the areas within the prior deferral area, as shown on Plate 12, with known levels of constituents of concern meeting on-site closure criteria; but above the most stringent criteria. Horizontal/lateral delineation to meet most stringent criteria includes samples GS-34 E, GS-38 N, GS-39 S, GS 40 S, GS-43 SE, and GS-45 N. Further horizontal delineation beyond samples GS-29 E, GS-30 SE, GS-39 N, and GS-44 W is prevented due to the location of the tank battery/production equipment.

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Analysis of samples obtained for horizontal and vertical delineation of the release extent on the active production site demonstrated that constituents of concern met the standards of Table I of 19.15.29.12 NMAC, where groundwater > 100 ft below ground surface.

- For the release area on an active production site that is in use for oil and gas operations and where depth to water is > 100 ft (with NMOCD approved depth to water determination):
 - Chloride < 20,000 mg/kg
 - TPH (GRO + DRO + MRO) < 2,500 mg/kg
 - TPH (GRO + DRO) < 1,000 mg/kg
 - BTEX < 50 mg/kg
 - Benzene < 10 mg/kg

Approximately 1,139 cubic yards of impacted material was removed and hauled off-site for proper disposal. Figures 6 and 7 are representative of off-site excavation areas.



Figure 6 : ROW excavation facing north.
Date Taken: 2022-10-21 13:29:15 GPS:
32.1511058, -103.2811192



Figure 7: Remediation of grids G-07, G-14, and G-15. Photo is viewing southwest from SW corner of production site. ROW production equipment is visible in photo background top left. Date: 12/11/2022. 32.1513088 N, 103.2808128 W

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Excavated areas were backfilled with non-waste containing material. Backfill material was sampled for Chloride, TPH, BTEX, and Benzene. Backfill soil concentrations were below the most stringent Closure Criteria concentrations. The Off-Site/ROW areas were remediated and reclaimed per 19.15.29.13 A-D NMAC (Figure 8). Reseeding will occur at the next favorable growing season. Disturbed areas on the active production site were restored per 19.15.29.13 A-C NMAC (Figure 9).



Figure 8: Reclaimed off-site area viewing north at west edge of production pad. The ROW is at photo right. The production pad is at photo left. The booster pump is in photo background top-right. 12/02/2022. 32.1515282 N, 103.2811498 W.



Figure 9: View of restored production site north of tank battery. Photo is viewing west-northwest. Date Taken: 2022-12-02 13:50:26. GPS: 32.1512392, -103.2808125

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The release extent on the active production site and immediately around defined production equipment will be remediated, restored, and reclaimed per 19.15.29.13.A-D NMAC when the production site is no longer in-use for oil and gas operations.

Please contact me with any questions.

Sincerely,



Andrew Parker
Env. Scientist
Ameredev II, LLC

12/27/2022

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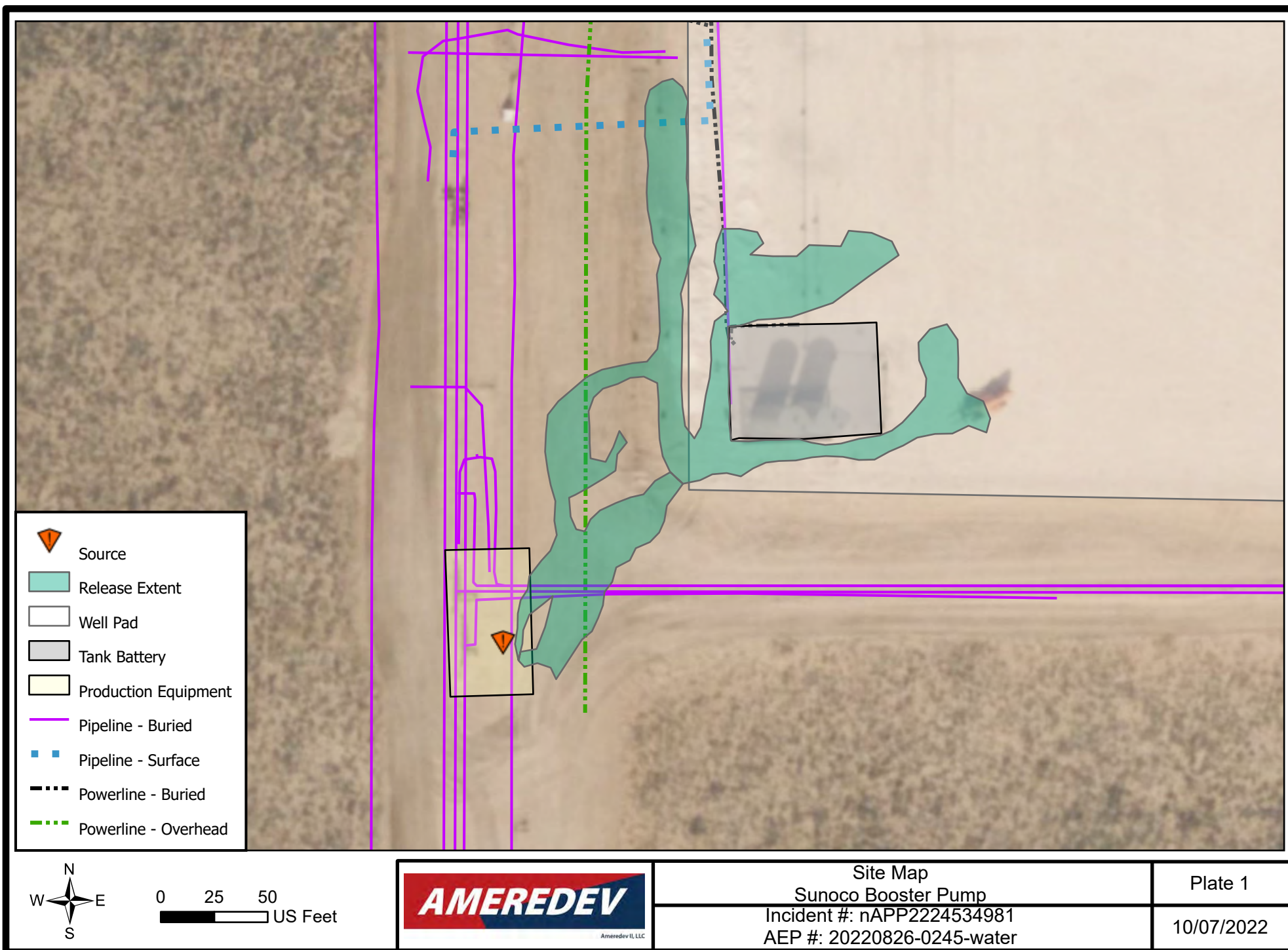


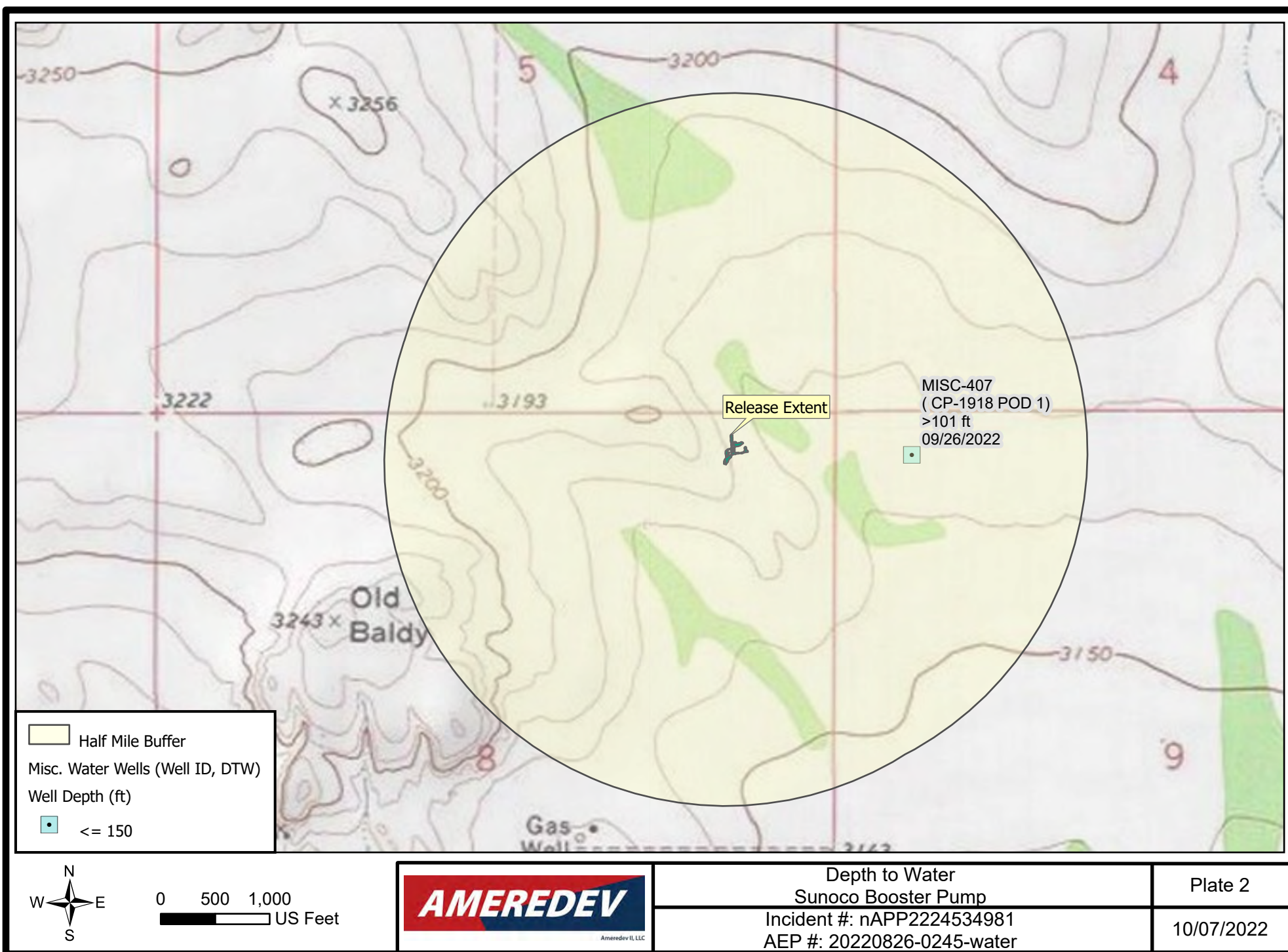
Ameredev II, LLC

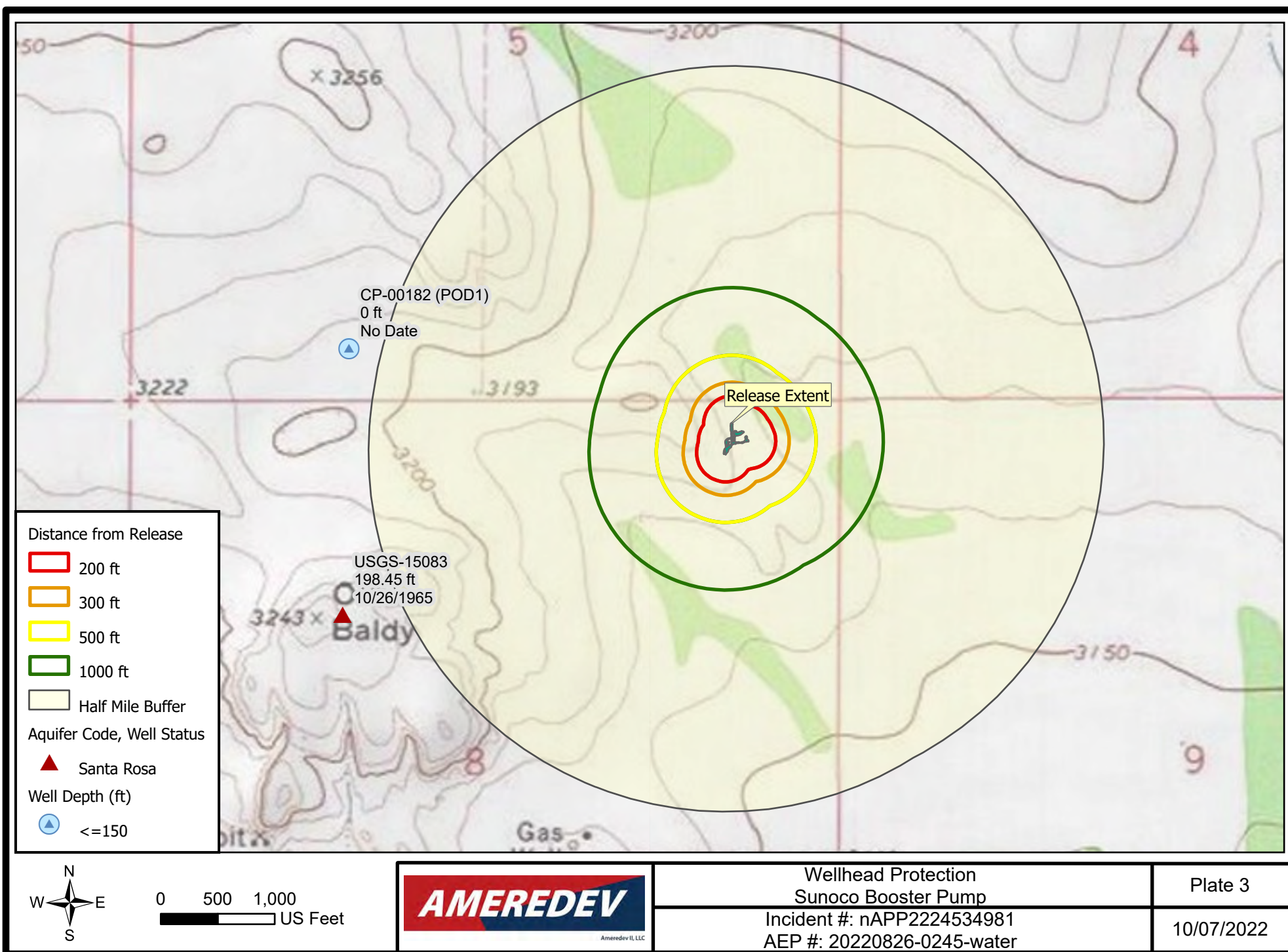
Plates

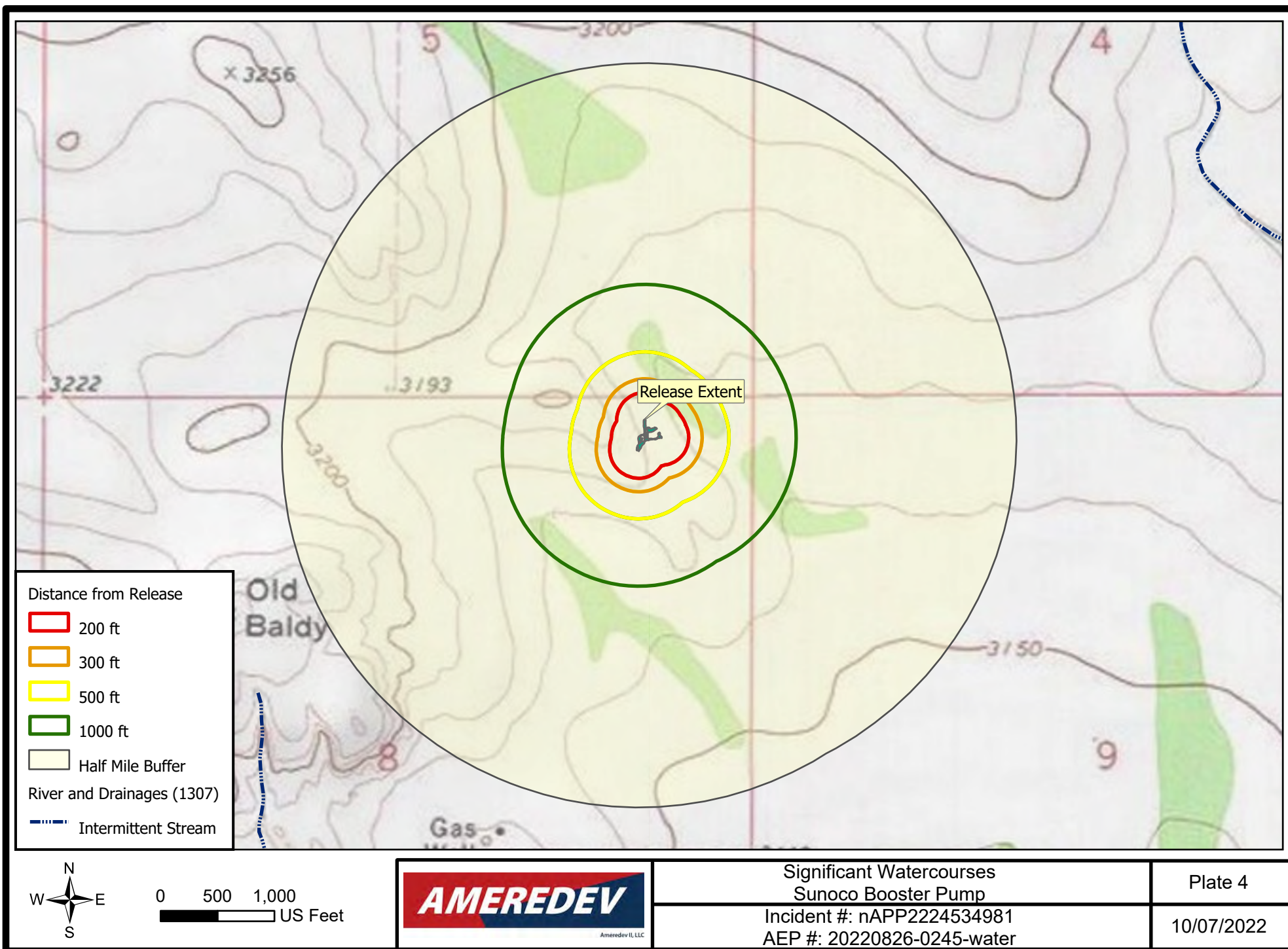


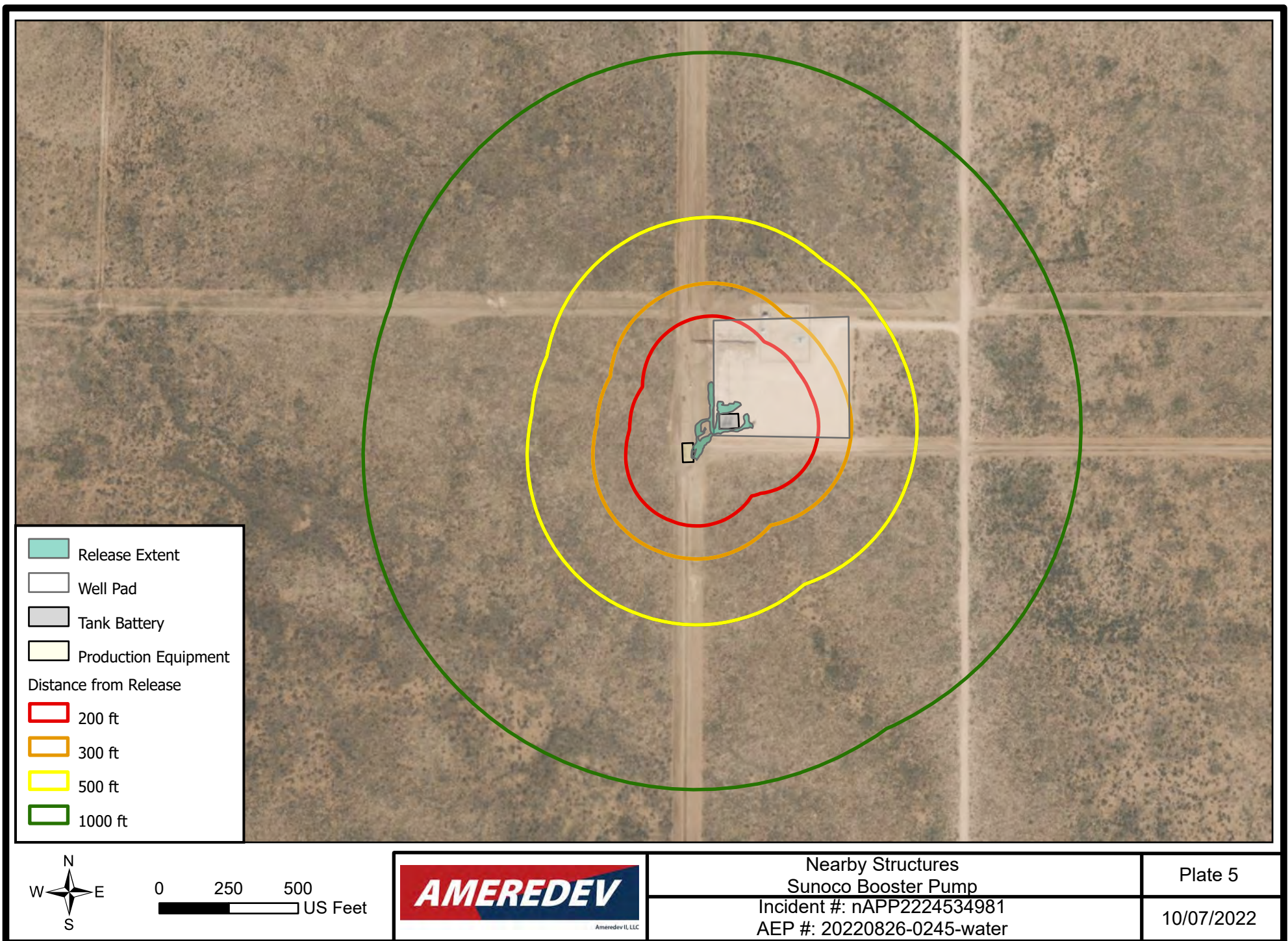
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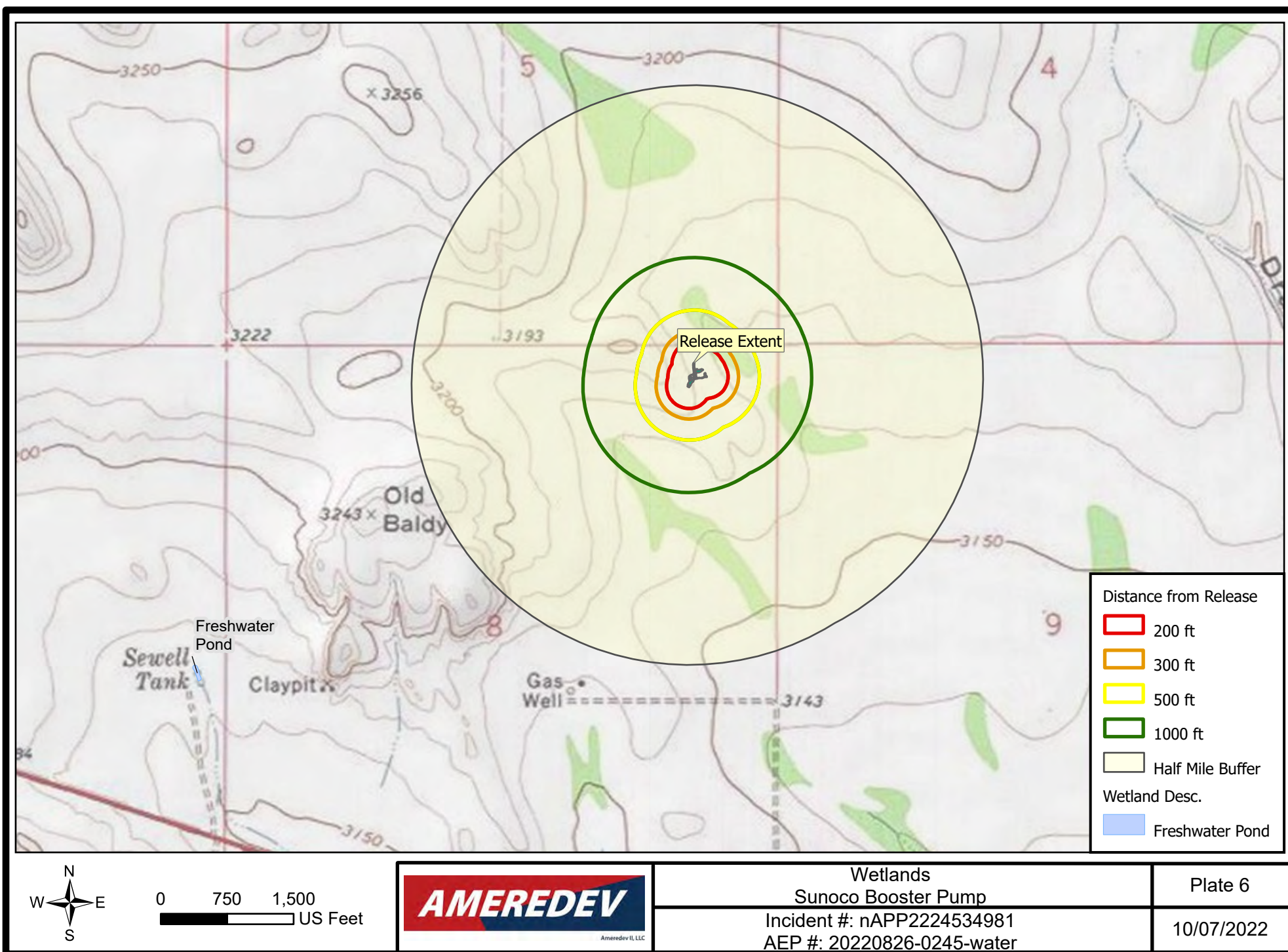


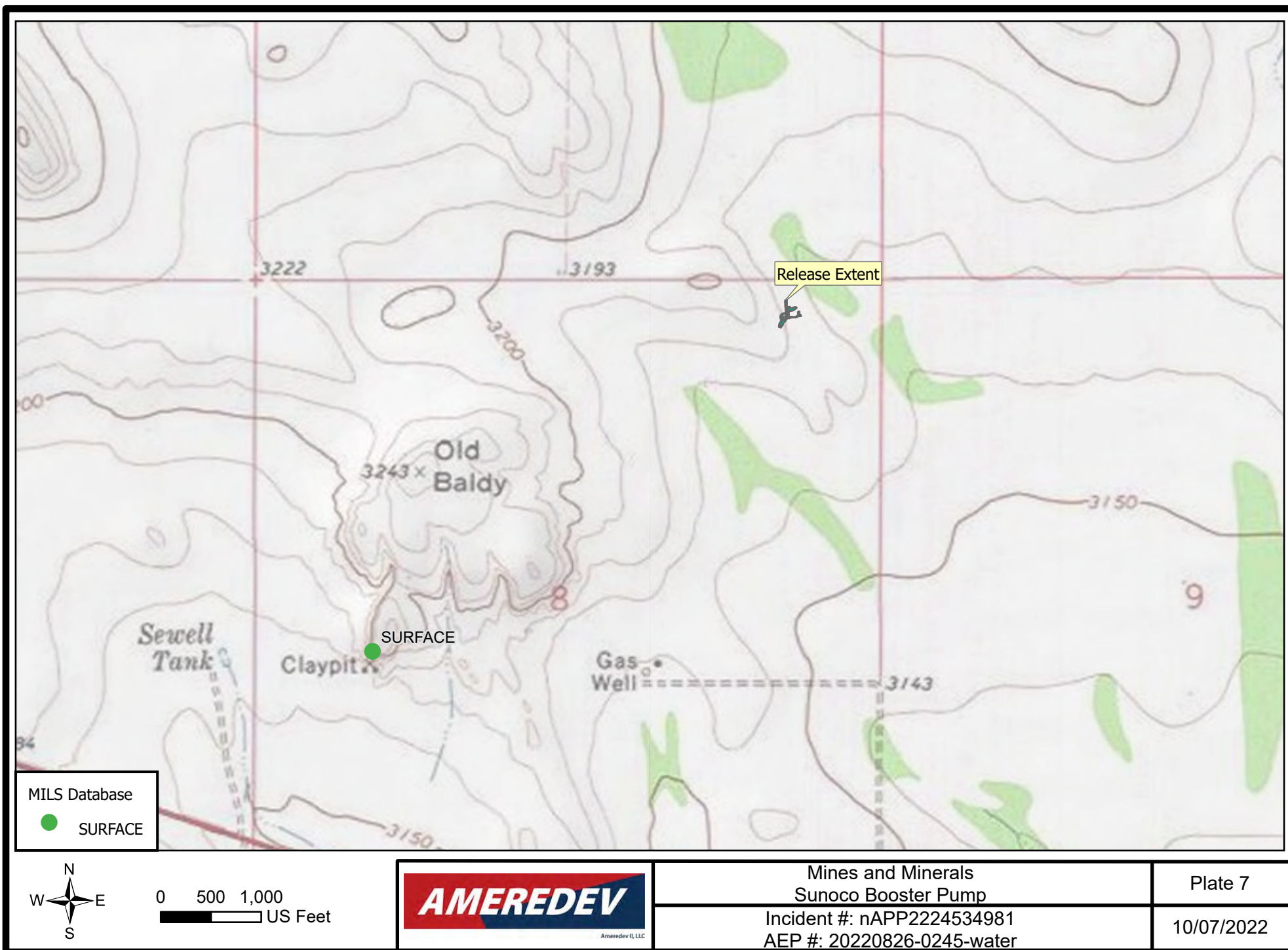


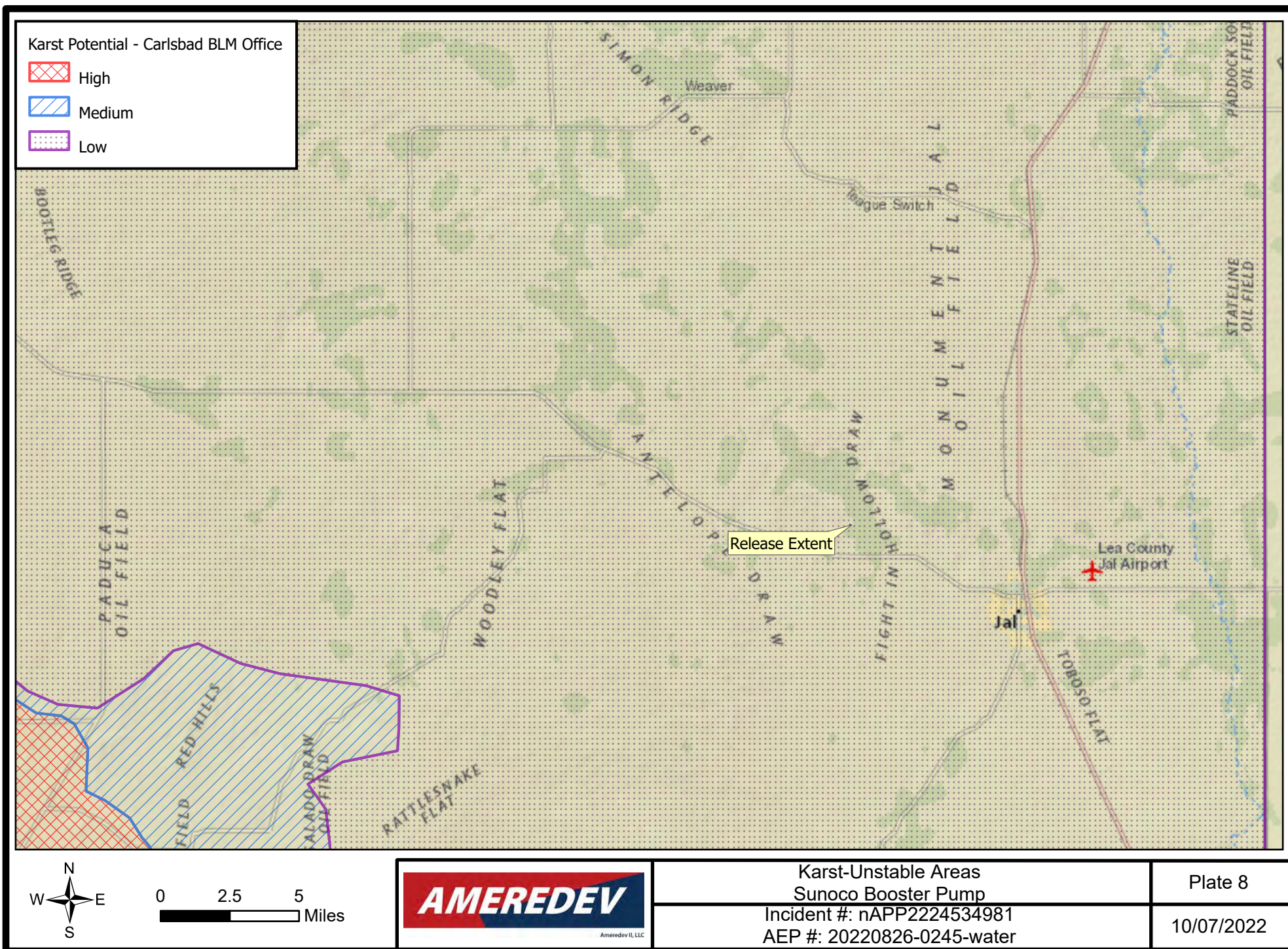


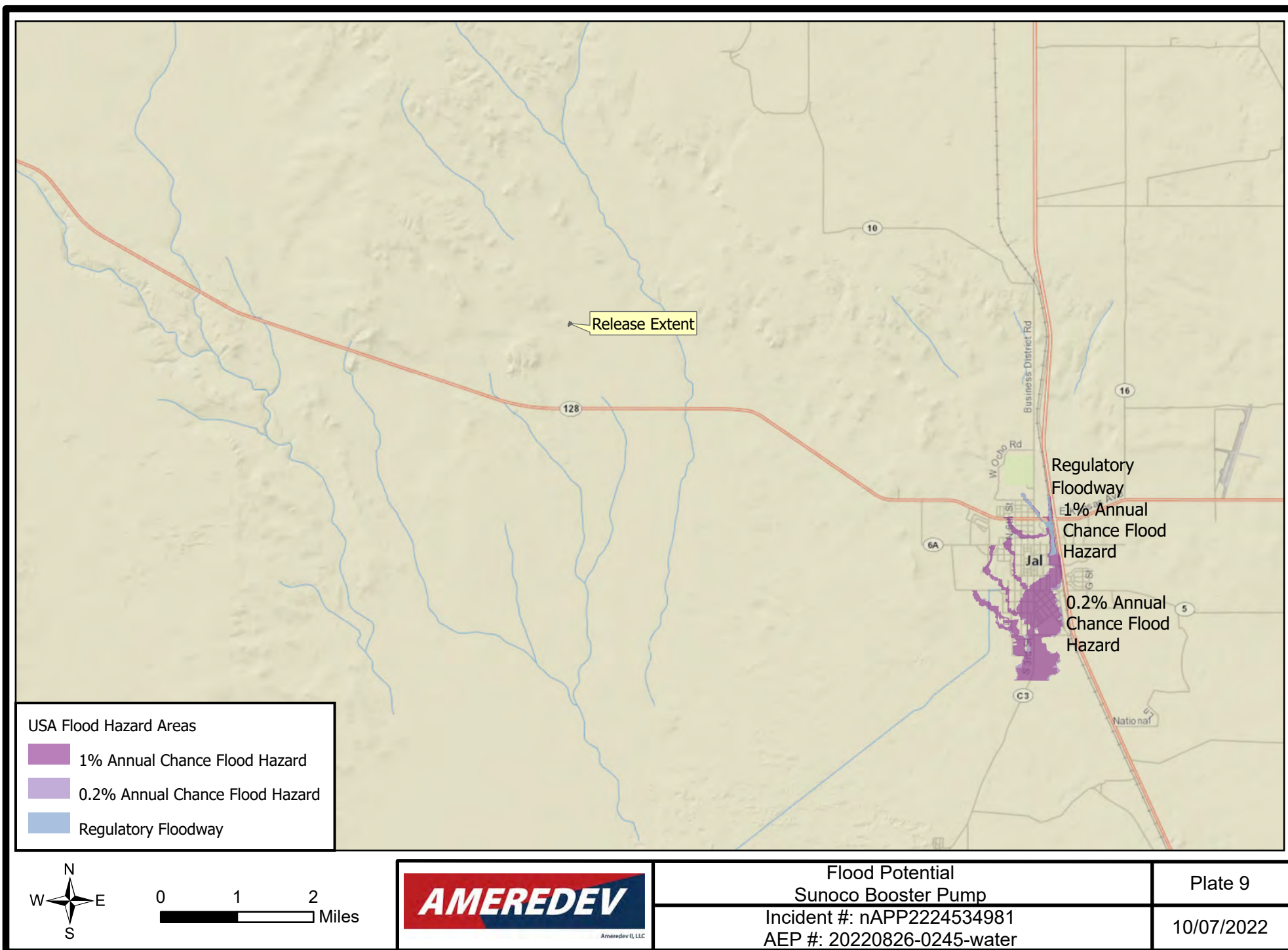


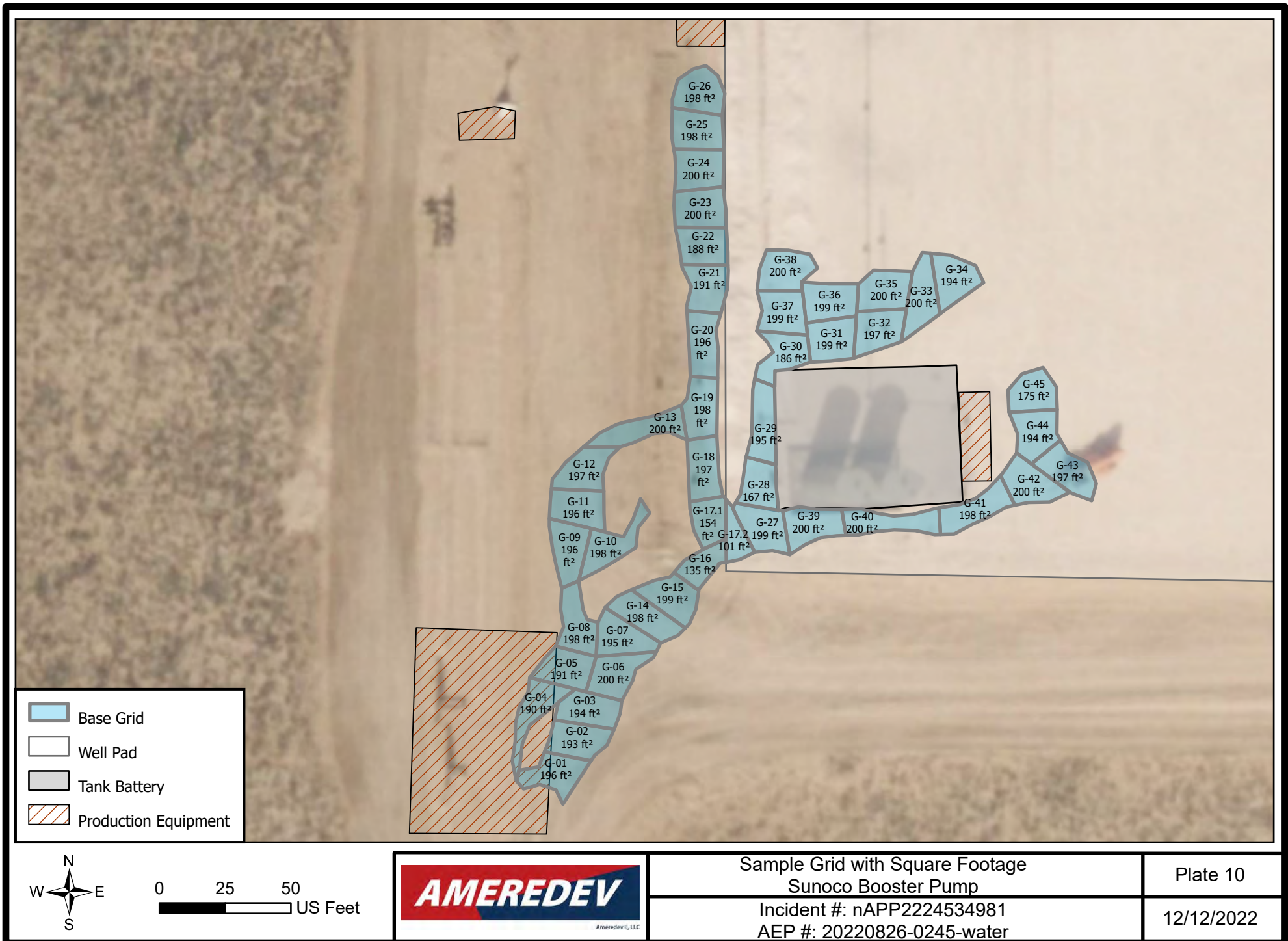


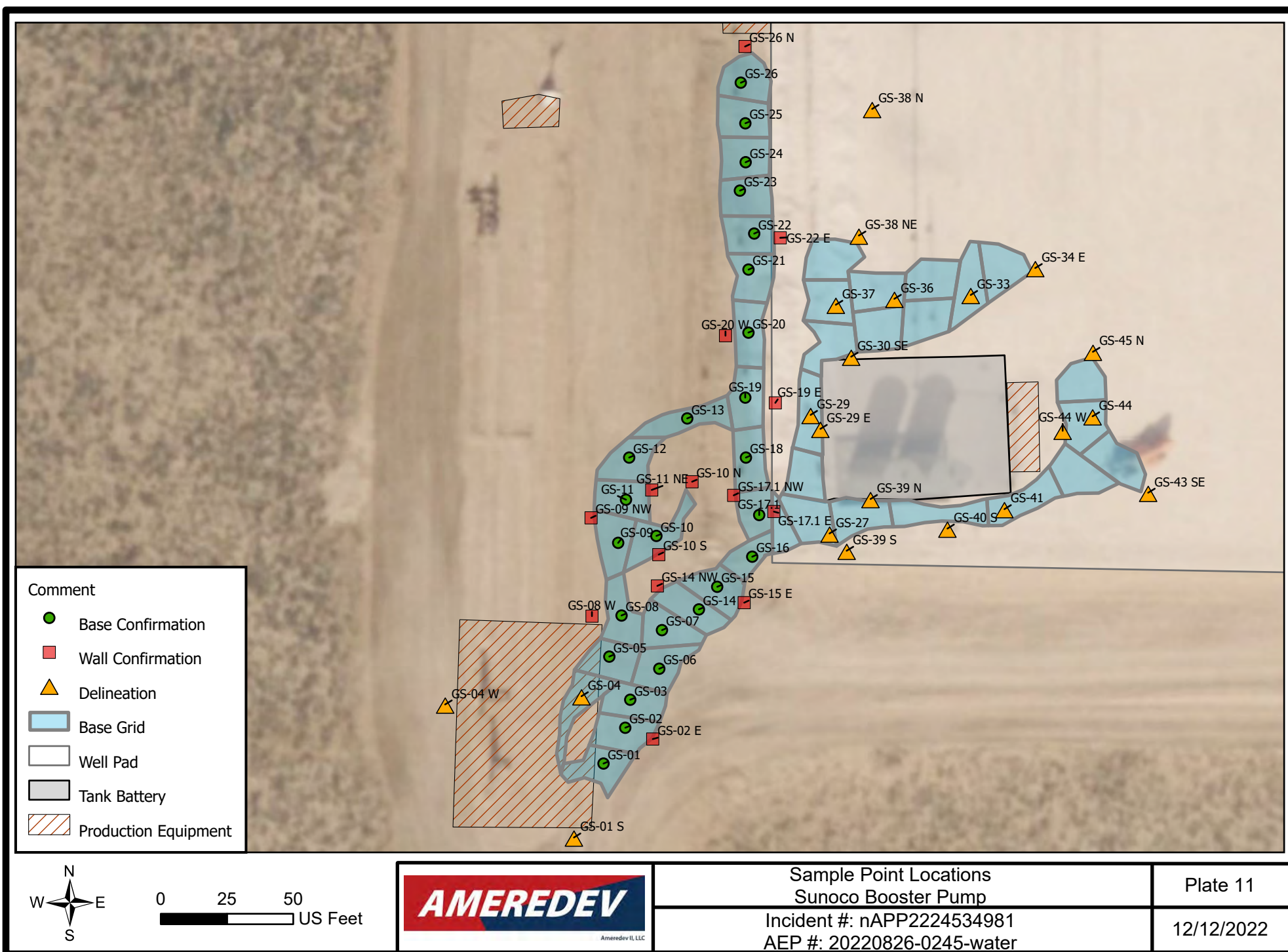


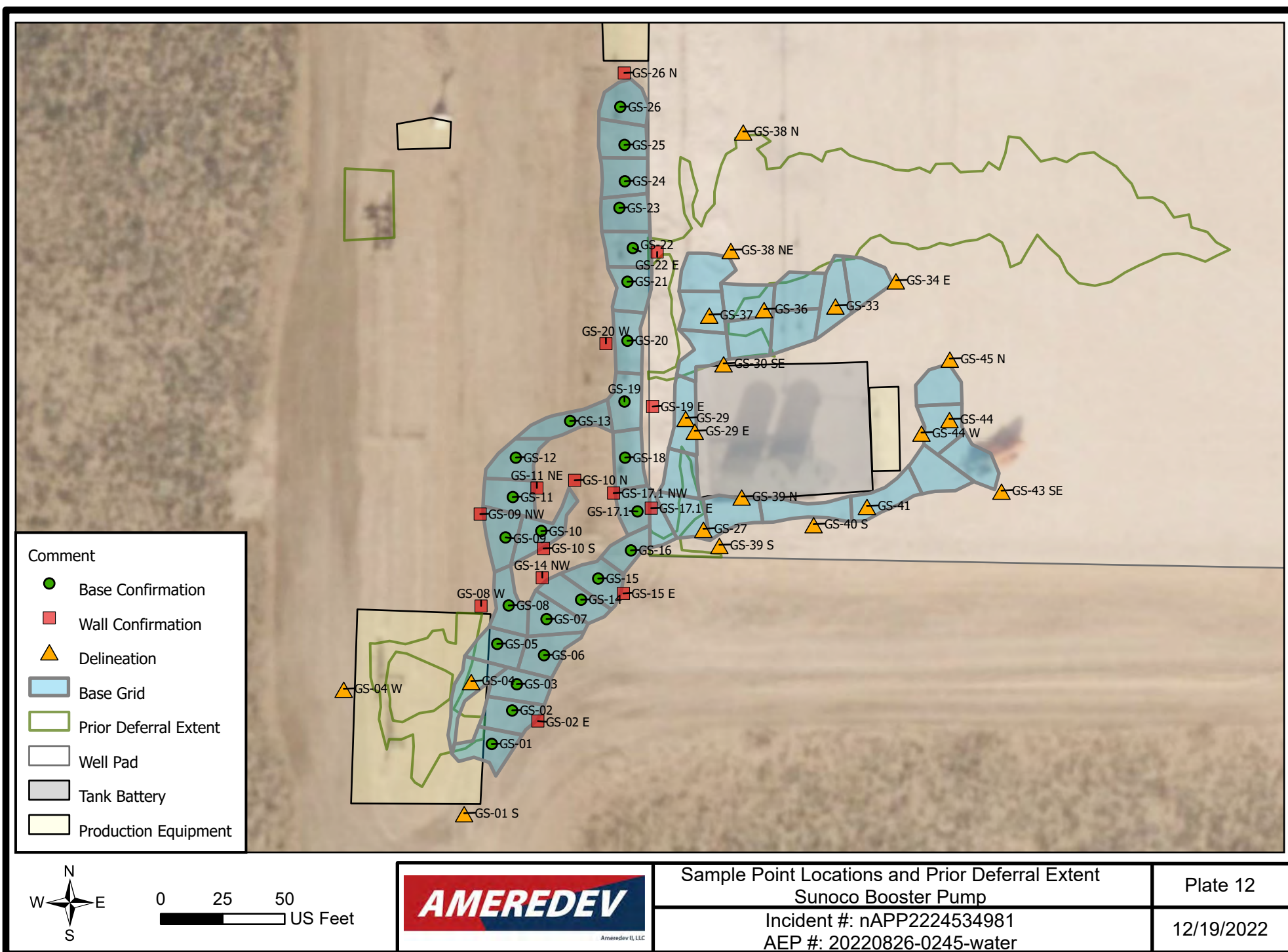












Tables



Ameredeve II, LLC

Sample Point	Latitude	Longitude
GS-01	32.15091591	-103.2812733
GS-01 S	32.15085126	-103.2813039
GS-02	32.15094721	-103.2812509
GS-02 E	32.15093735	-103.2812225
GS-03	32.15097170	-103.2812457
GS-04	32.15097474	-103.2812961
GS-04 W	32.15096752	-103.2814369
GS-05	32.15100940	-103.2812673
GS-06	32.15099883	-103.2812157
GS-07	32.15103256	-103.2812129
GS-08	32.15104533	-103.2812547
GS-08 W	32.15104476	-103.2812852
GS-09	32.15110888	-103.2812582
GS-09 NW	32.15113073	-103.2812862
GS-10	32.15111494	-103.2812187
GS-10 N	32.15116226	-103.2811819
GS-10 S	32.15109857	-103.2812162
GS-11	32.15114661	-103.2812501
GS-11 NE	32.15115507	-103.2812235
GS-12	32.15118342	-103.2812468
GS-13	32.15121764	-103.2811868
GS-14	32.15105068	-103.2811748
GS-14 NW	32.15107118	-103.2812177
GS-15	32.15107045	-103.2811559
GS-15 E	32.15105659	-103.2811280
GS-16	32.15109677	-103.2811197
GS-17.1	32.15113320	-103.2811125
GS-17.1 E	32.15113625	-103.2810974
GS-17.1 NW	32.15115037	-103.2811389
GS-17.2	32.15112336	-103.2810907
GS-18	32.15118342	-103.2811262
GS-19	32.15123585	-103.2811269
GS-19 E	32.15123124	-103.2810959
GS-20	32.15129264	-103.2811236
GS-20 W	32.15128996	-103.2811473
GS-21	32.15134779	-103.2811236
GS-22	32.15137928	-103.2811177
GS-22 E	32.15137554	-103.2810908
GS-23	32.15141680	-103.2811324
GS-24	32.15144166	-103.2811265
GS-25	32.15147565	-103.2811268
GS-26	32.15151120	-103.2811315
GS-26 N	32.15154282	-103.2811271
GS-27	32.15111702	-103.2810398
GS-28	32.15116962	-103.2810630
GS-29	32.15122065	-103.2810594
GS-29 E	32.15120855	-103.2810493
GS-30	32.15128332	-103.2810356
GS-30 SE	32.15127161	-103.2810175
GS-31	32.15129822	-103.2809913
GS-32	32.15130469	-103.2809382
GS-33	32.15132561	-103.2808940

Sample Point	Latitude	Longitude
GS-34	32.15135098	-103.2808577
GS-34 E	32.15134913	-103.2808273
GS-35	32.15134063	-103.2809344
GS-36	32.15132225	-103.2809729
GS-37	32.15131705	-103.2810333
GS-38	32.15135827	-103.2810333
GS-38 N	32.15148720	-103.2809965
GS-38 NE	32.15137749	-103.2810096
GS-39	32.15113320	-103.2810076
GS-39 N	32.15114716	-103.2809975
GS-39 S	32.15109960	-103.2810201
GS-40	32.15113485	-103.2809411
GS-40 S	32.15112131	-103.2809181
GS-41	32.15113839	-103.2808592
GS-42	32.15116631	-103.2807794
GS-43	32.15118293	-103.2807446
GS-43 SE	32.15115263	-103.2807108
GS-44	32.15121952	-103.2807681
GS-44 W	32.15120687	-103.2807991
GS-45	32.15125395	-103.2807803
GS-45 N	32.15127746	-103.2807665

December 19, 2022

Table B
Summary of Analytical

Incident ID: nAPP2224534981

Sunoco Booster Pump

AEP #: 20220826-0245-water

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Lab (Hall/Cardinal)	Lab #
NMOCD Closure Criteria													
0 - 4 feet & "not in-use"						600	--	100	10	50			
> 4 ft or "in-use"						20,000	1,000	2,500	10	50			
GS-01	10/25/2022	2			Off-Site	80	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-01 S	10/25/2022		0	2	Off-Site	160	<20	<30	<0.025	<0.15	Horizontal Delineation	Cardinal	H225018
GS-02	10/25/2022	2			Off-Site	80	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-02 E	10/25/2022		0	2	Off-Site	80	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-03	10/25/2022	2			Off-Site	80	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-04	10/25/2022		0	0.5	Facility	NS	NS	NS	NS	NS	Removed		
GS-04	10/25/2022		0.5	2	Facility	5120	<20	<30	<0.025	<0.15	Delineation/Defer	Cardinal	H225018
GS-04	10/25/2022		2	3	Facility	8660	<20	<30	<0.025	<0.15	Delineation/Defer	Cardinal	H225018
GS-04 W	10/25/2022		0	2	Off-Site	112	<20	<30	<0.025	<0.15	Horizontal Delineation	Cardinal	H225018
GS-05	10/25/2022	2			Off-Site	128	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-06	10/25/2022	2			Off-Site	144	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-07	10/25/2022	2			Off-Site	208	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-08	10/25/2022	2			Off-Site	192	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-08 W	11/7/2022		0	2	Off-Site	128	<20	<30	<0.05	<0.30	Confirmation/Delineation	Cardinal	H225247
GS-09	12/1/2022	2			Off-Site	144	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-09 NW	12/1/2022		0	2	Off-Site	192	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-10	12/1/2022	2			Off-Site	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-10 N	12/1/2022		0	2	Off-Site	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-10 S	12/1/2022		0	2	Off-Site	96	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-11	12/1/2022	2			Off-Site	144	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-11 NE	12/1/2022		0	2	Off-Site	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-12	10/25/2022	2			Off-Site	192	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-13	10/25/2022	2			Off-Site	224	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-14	11/7/2022	2			Off-Site	176	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225247
GS-14 NW	11/7/2022		0	2	Off-Site	64	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225247
GS-15	11/7/2022	2			Off-Site	192	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225247
GS-15 E	11/7/2022		0	2	Off-Site	48	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225247
GS-16	12/1/2022	4.5			Off-Site	208	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-17.1	12/1/2022	4.5			Off-Site	1280	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-17.1 E	12/1/2022		0	2	On-Site	7730	<20	<30	<0.05	<0.30	Confirmation/Defer	Cardinal	H225638
GS-17.1 E	12/1/2022		2	4	On-Site	2200	<20	<30	<0.05	<0.30	Confirmation/Defer	Cardinal	H225638
GS-17.1 E	12/1/2022	4.5			On-Site	192	<20	<30	<0.05	<0.30	Confirmation/Defer	Cardinal	H225638
GS-17.1 NW	12/1/2022		0	2	Off-Site	80	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-17.1 NW	12/1/2022		2	4	Off-Site	32	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-17.1 NW	12/1/2022	4.5			Off-Site	<16	<20	<30	<0.05	<0.30	Confirmation	Cardinal	H225638
GS-17.2					On-Site	NS	NS	NS	NS	NS	Defer		
GS-18	10/25/2022	4.25			Off-Site	832	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-19	10/25/2022	4.25			Off-Site	4560	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-19 E	10/25/2022		0	2	On-Site	144	<20	<30	<0.025	<0.15	Confirmation/Defer	Cardinal	H225018
GS-19 E	10/25/2022		2	4	On-Site	1100	<20	<30	<0.025	<0.15	Confirmation/Defer	Cardinal	H225018
GS-19 E	10/25/2022	4.25			On-Site	2120	<20	<30	<0.025	<0.15	Confirmation/Defer	Cardinal	H225018
GS-20	10/25/2022	4.25			Off-Site	1100	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-20 W	10/25/2022		0	2	Off-Site	48	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-20 W	10/25/2022		2	4	Off-Site	64	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-20 W	10/25/2022	4.25			Off-Site	176	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018

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December 19, 2022

Table B
Summary of Analytical

Incident ID: nAPP2224534981

Sunoco Booster Pump

AEP #: 20220826-0245-water

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Lab	Lab #
												(Hall/Cardinal)	
NMOCD Closure Criteria													
0 - 4 feet & "not in-use"						600	--	100	10	50			
> 4 ft or "in-use"						20,000	1,000	2,500	10	50			
GS-21	10/25/2022	4.25			Off-Site	352	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-22	10/25/2022	4.25			Off-Site	96	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-22 E	10/25/2022		0	2	On-Site	608	<20	<30	<0.025	<0.15	Confirmation/Defer	Cardinal	H225018
GS-22 E	10/25/2022		2	4	On-Site	704	<20	<30	<0.025	<0.15	Confirmation/Defer	Cardinal	H225018
GS-22 E	10/25/2022	4.25			On-Site	160	<20	<30	<0.025	<0.15	Confirmation/Defer	Cardinal	H225018
GS-23	10/25/2022	4.25			Off-Site	288	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-24	10/25/2022	4.25			Off-Site	1880	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-25	10/25/2022	4.25			Off-Site	3600	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-26	10/25/2022		0	2	Off-Site	800	<20	<30	<0.025	<0.15	Removed	Cardinal	H225018
GS-26	10/25/2022		2	4	Off-Site	96	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-26	10/25/2022	4.25			Off-Site	192	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-26 N	10/25/2022		0	2	Off-Site	32	<20	<30	<0.025	<0.15	Confirmation	Cardinal	H225018
GS-27	10/24/2022		0	2	On-Site	112	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-27	10/24/2022		2	4	On-Site	3520	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-27	10/24/2022	4.5			On-Site	4800	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-28					On-Site	NS	NS	NS	NS	NS	Defer		
GS-29	10/24/2022		0	2	On-Site	592	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-29	10/24/2022		2	4	On-Site	96	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-29 E	10/24/2022		0	2	On-Site	5730	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-29 E	10/24/2022		2	4	On-Site	400	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-29 E	10/24/2022	4.5			On-Site	208	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-30					On-Site	NS	NS	NS	NS	NS	Defer		
GS-30 SE	10/24/2022		0	2	On-Site	6000	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-30 SE	10/24/2022		2	4	On-Site	6220	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-30 SE	10/24/2022	4.5			On-Site	5060	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-31					On-Site	NS	NS	NS	NS	NS	Defer		
GS-32					On-Site	NS	NS	NS	NS	NS	Defer		
GS-33	10/24/2022		0	2	On-Site	384	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-33	10/24/2022		2	4	On-Site	112	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-34					On-Site	NS	NS	NS	NS	NS	Defer		
GS-34 E	10/24/2022		0	2	On-Site	64	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-35					On-Site	NS	NS	NS	NS	NS	Defer		
GS-36	10/24/2022		0	2	On-Site	5280	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-36	10/24/2022		2	4	On-Site	3440	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-36	10/24/2022	4.5			On-Site	2160	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-37	10/24/2022		0	2	On-Site	112	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-38 N	12/12/2022	0			On-Site	64	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H225846
GS-38 NE	10/24/2022		0	2	On-Site	7200	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-38 NE	10/24/2022		2	4	On-Site	7280	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-38 NE	10/24/2022	4.5			On-Site	4560	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-39					On-Site	NS	NS	NS	NS	NS	Defer		
GS-39 N	10/24/2022		0	2	On-Site	720	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-39 N	10/24/2022		2	4	On-Site	3520	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-39 N	10/24/2022	4.5			On-Site	1600	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001

Ameredev Operating

2/3

December 19, 2022

Table B
Summary of Analytical

Incident ID: nAPP2224534981
Sunoco Booster Pump
AEP #: 20220826-0245-water

Sample ID	Date	Discrete Depth (Feet)	Top Depth (Feet)	Bottom Depth (Feet)	Location	Chloride (mg/kg)	GRO+DRO (mg/kg)	TPH Ext. (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)	Comments	Lab	Lab #
												(Hall/Cardinal)	
NMOCD Closure Criteria													
0 - 4 feet & "not in-use"						600	--	100	10	50			
> 4 ft or "in-use"						20,000	1,000	2,500	10	50			
GS-39 S	12/12/2022	0			On-Site	32	<20	<30	<0.05	<0.30	Horizontal Delineation	Cardinal	H225846
GS-40					On-Site	NS	NS	NS	NS	NS	Defer		
GS-40 S	10/24/2022		0	2	On-Site	320	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-40 S	10/24/2022		2	4	On-Site	240	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-41	10/24/2022		0	2	On-Site	192	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-41	10/24/2022		2	4	On-Site	368	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-42					On-Site	NS	NS	NS	NS	NS	Defer		
GS-43					On-Site	NS	NS	NS	NS	NS	Defer		
GS-43 SE	10/24/2022		0	2	On-Site	144	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-44	10/24/2022		0	2	On-Site	1640	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-44	10/24/2022		2	4	On-Site	176	<20	<30	<0.05	<0.30	Vertical Delineation/Defer	Cardinal	H225001
GS-44 W	10/24/2022		0	2	On-Site	672	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-44 W	10/24/2022		2	4	On-Site	80	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
GS-45					On-Site	NS	NS	NS	NS	NS	Defer		
GS-45 N	10/24/2022		0	2	On-Site	272	<20	<30	<0.05	<0.30	Horizontal Delineation/Defer	Cardinal	H225001
Sunoco Backfill 01	10/26/2022				On-Site	<16	<20	<30	<0.05	<0.30	Backfill	Cardinal	H225056

Appendix A

Communications



Ameredev II, LLC

Andrew Parker

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Monday, October 24, 2022 11:11 AM
To: Andrew Parker
Cc: Bratcher, Michael, EMNRD
Subject: FW: [EXTERNAL] nAPP2224534981 48 hour sampling notice at Sunoco Booster Pump #2

External (jennifer.nobui@emnrd.nm.gov)

[Report This Email](#) [FAQ](#) [Protection by INKY](#)

Andrew

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Please note that the responsible party must provide at least two business days' notice to the OCD as opposed to 48-hour notification.

Thanks,
Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Sent: Thursday, October 20, 2022 1:05 PM
To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: FW: [EXTERNAL] nAPP2224534981 48 hour sampling notice at Sunoco Booster Pump #2

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@state.nm.us
<http://www.emnrd.nm.gov>



From: Andrew Parker <aparker@ameredev.com>
Sent: Thursday, October 20, 2022 8:08 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] nAPP2224534981 48 hour sampling notice at Sunoco Booster Pump #2

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

NMOCD,

Please accept this email as the 48 hour confirmation sampling notice per 19.15.29 NMAC. Remediation commence today and confirmation sampling will occur throughout excavation activities.

Location: Sunoco Booster Pump #2

AEP#: 20220826-0245-water

Incident#: nAPP2224534981

Regards.

Andrew Parker
Environmental Scientist
970-570-9535



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Friday, September 2, 2022 10:43 AM

To: Andrew Parker <aparker@ameredev.com>

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 140421

To whom it may concern (c/o Andrew Parker for AMEREDEV OPERATING, LLC),

The OCD has accepted the submitted *Notification of a release* (NOR), for incident ID (n#) nAPP2224534981, with the following conditions:

- **When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.**

Please reference nAPP2224534981, on all subsequent C-141 submissions and communications regarding the remediation of this release.

NOTE: As of December 2019, NMOCD has discontinued the use of the "RP" number.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

ocd.enviro@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Appendix B

Well Logs



Ameredev II, LLC



2904 W 2nd St.
Roswell, NM 88201
voice: 575.624.2420
fax: 575.624.2421
www.atkinseng.com

July 8, 2022

DII-NMOSE
1900 W 2nd Street
Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-1918 Pod-1

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-1918 Pod-1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucas Middleton".

Lucas Middleton

Enclosures: as noted above

OSE DTI SEP 30 2022 AM 10:53



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD-1		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1918			
	WELL OWNER NAME(S) Ameredev Operating, LLC				PHONE (OPTIONAL) 737-300-4700			
	WELL OWNER MAILING ADDRESS 2901 Via Fortuna Suite 600				CITY Austin	STATE TX	ZIP 78746	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 9	SECONDS 3.94	N	• ACCURACY REQUIRED: ONE TENTH OF A SECOND		
		LONGITUDE 103	16	35.73	W	• DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NW NW Sec.9 T25S R36S NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 9/19/2022	DRILLING ENDED 9/19/2022	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) ±101	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a	DATE STATIC MEASURED 9/26/2022		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 101		±6.25"	Boring-HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL		AMOUNT (cubic feet)	METHOD OF PLACEMENT	

USE ON SEP 30 2022 am 10:50

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
4. HYDROGEOLOGIC LOG OF WELL	0	9	9	Caliche and fine-grained sand, Brown	Y ✓ N	
	9	90	81	Sand, fine-grained, poorly graded, with caliche, Pinkish Tan	Y ✓ N	
	90	100	10	Sand, fine-grained, poorly graded, Brown	Y ✓ N	
	100	101	1	Sand, fine-grained, poorly graded, ,Reddish Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:				TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.			
MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface. DTW-04						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt						
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: Jack Atkins Jackie D. Atkins 9/29/2022					
SIGNATURE OF DRILLER / PRINT SIGNEE NAME					DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.		PAGE 2 OF 2



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: CP-1918
 Well owner: Ameredev Operating, LLC Phone No.: 737-300-4700
 Mailing address: 2901 Via Fortuna Suite 600
 City: Austin State: Texas Zip code: 78746

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Jackie D. Atkins (Atkins Engineering Associates Inc.)
- 2) New Mexico Well Driller License No.: 1249 Expiration Date: 04/30/23
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Shane Eldridge ,Cameron Pruitt
- 4) Date well plugging began: 9/26/2022 Date well plugging concluded: 9/26/2022
- 5) GPS Well Location: Latitude: 32 deg, 9 min, 3.94 sec
 Longitude: 103 deg, 16 min, 35.70 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 101 ft below ground level (bgl),
 by the following manner: water level probe
- 7) Static water level measured at initiation of plugging: n/a ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 9/12/2022
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

OSE OUI SEP 30 2022 AM 10:53

- For each interval plugged, describe within the following columns:**

05E 011 SEP 30 2022 AM 10:53

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Jackie D. Atkins, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Jack Atkins

9/29/2022

Date _____






1-C-1918_WellLog-packet-forsign-DTW-4

Final Audit Report

2022-09-29

Created:	2022-09-29
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAGR3XzjVMYSnap66fsach81rXkMna7Bg

"1-C-1918_WellLog-packet-forsign-DTW-4" History

-  Document created by Lucas Middleton (lucas@atkinseng.com)
2022-09-29 - 9:19:37 PM GMT- IP address: 64.17.71.25
-  Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2022-09-29 - 9:21:09 PM GMT
-  Email viewed by Jack Atkins (jack@atkinseng.com)
2022-09-29 - 9:22:24 PM GMT- IP address: 64.90.153.232
-  Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2022-09-29 - 9:23:19 PM GMT - Time Source: server- IP address: 64.90.153.232
-  Agreement completed.
2022-09-29 - 9:23:19 PM GMT

USE DJT SEP 30 2022 AM 10:59



Adobe Acrobat Sign

Appendix C

Certificates of Analysis



Ameredev II, LLC

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

November 01, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: SUNOCO BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 10/24/22 16:40.

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/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS - 27 0-2 FT	H225001-01	Soil	24-Oct-22 08:13	24-Oct-22 16:40
GS - 27 2-4 FT	H225001-02	Soil	24-Oct-22 08:21	24-Oct-22 16:40
GS - 27 4.5 FT	H225001-03	Soil	24-Oct-22 08:31	24-Oct-22 16:40
GS - 29 0-2 FT	H225001-04	Soil	24-Oct-22 08:37	24-Oct-22 16:40
GS - 29 2-4 FT	H225001-05	Soil	24-Oct-22 08:47	24-Oct-22 16:40
GS - 29 E 0-2 FT	H225001-06	Soil	24-Oct-22 08:52	24-Oct-22 16:40
GS - 29 E 2-4 FT	H225001-07	Soil	24-Oct-22 09:01	24-Oct-22 16:40
GS - 29 E 4.5 FT	H225001-08	Soil	24-Oct-22 09:08	24-Oct-22 16:40
GS - 30 SE 0-2 FT	H225001-09	Soil	24-Oct-22 09:20	24-Oct-22 16:40
GS - 30 SE 2-4 FT	H225001-10	Soil	24-Oct-22 09:26	24-Oct-22 16:40
GS - 30 SE 4.5 FT	H225001-11	Soil	24-Oct-22 09:32	24-Oct-22 16:40
GS - 33 0-2 FT	H225001-12	Soil	24-Oct-22 09:42	24-Oct-22 16:40
GS - 33 2-4 FT	H225001-13	Soil	24-Oct-22 09:48	24-Oct-22 16:40
GS - 34 E 0-2 FT	H225001-14	Soil	24-Oct-22 09:57	24-Oct-22 16:40
GS - 36 0-2 FT	H225001-15	Soil	24-Oct-22 10:07	24-Oct-22 16:40
GS - 36 2-4 FT	H225001-16	Soil	24-Oct-22 10:17	24-Oct-22 16:40
GS - 36 4.5 FT	H225001-17	Soil	24-Oct-22 10:22	24-Oct-22 16:40
GS - 37 0-2 FT	H225001-18	Soil	24-Oct-22 10:28	24-Oct-22 16:40
GS - 38 NE 0-2 FT	H225001-19	Soil	24-Oct-22 10:33	24-Oct-22 16:40
GS - 38 NE 2-4 FT	H225001-20	Soil	24-Oct-22 10:41	24-Oct-22 16:40
GS - 38 NE 4.5 FT	H225001-21	Soil	24-Oct-22 10:47	24-Oct-22 16:40
GS - 39 N 0-2 FT	H225001-22	Soil	24-Oct-22 10:58	24-Oct-22 16:40
GS - 39 N 2-4 FT	H225001-23	Soil	24-Oct-22 11:07	24-Oct-22 16:40
GS - 39 N 4.5 FT	H225001-24	Soil	24-Oct-22 11:15	24-Oct-22 16:40
GS - 40 S 0-2 FT	H225001-25	Soil	24-Oct-22 11:28	24-Oct-22 16:40
GS - 40 S 2-4 FT	H225001-26	Soil	24-Oct-22 11:36	24-Oct-22 16:40
GS - 41 0-2 FT	H225001-27	Soil	24-Oct-22 11:47	24-Oct-22 16:40

Cardinal Laboratories

*=Accredited Analyte

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 client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 41 2-4 FT	H225001-28	Soil	24-Oct-22 11:52	24-Oct-22 16:40
GS - 43 SE 0-2 FT	H225001-29	Soil	24-Oct-22 12:01	24-Oct-22 16:40
GS - 44 0-2 FT	H225001-30	Soil	24-Oct-22 12:10	24-Oct-22 16:40
GS - 44 2-4 FT	H225001-31	Soil	24-Oct-22 12:17	24-Oct-22 16:40
GS - 44 W 0-2 FT	H225001-32	Soil	24-Oct-22 12:32	24-Oct-22 16:40
GS - 44 W 2-4 FT	H225001-33	Soil	24-Oct-22 12:39	24-Oct-22 16:40
GS - 45 N 0-2 FT	H225001-34	Soil	24-Oct-22 12:51	24-Oct-22 16:40

11/01/22 - Client clarified the project name via email. This is the revised report and will replace the one sent on 10/31/22.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 27 0-2 FT**H225001-01 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	112		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2102636	JH	31-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	98.2 %	69.9-140	2102636	JH	31-Oct-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	

Surrogate: 1-Chlorooctane	88.8 %	45.3-161	2102717	MS	28-Oct-22	8015B	
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Surrogate: 1-Chlorooctadecane	98.0 %	46.3-178	2102717	MS	28-Oct-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 27 2-4 FT
H225001-02 (Soil)

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

Chloride	3520		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102636	JH	31-Oct-22	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.7 %		69.9-140	2102636	JH	31-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctane</i>			83.5 %		45.3-161	2102717	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			93.7 %		46.3-178	2102717	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 27 4.5 FT
H225001-03 (Soil)

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

Chloride	4800		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102636	JH	31-Oct-22	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.7 %		69.9-140	2102636	JH	31-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctane</i>			86.8 %		45.3-161	2102717	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			95.8 %		46.3-178	2102717	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 29 0-2 FT
H225001-04 (Soil)

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

Chloride	592		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102636	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102636	JH	31-Oct-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.7 %		69.9-140	2102636	JH	31-Oct-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			82.3 %		45.3-161	2102717	MS	28-Oct-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			91.1 %		46.3-178	2102717	MS	28-Oct-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 29 2-4 FT
H225001-05 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.7 %		69.9-140	2102637	JH	30-Oct-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			80.8 %		45.3-161	2102717	MS	28-Oct-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.5 %		46.3-178	2102717	MS	28-Oct-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 29 E 0-2 FT
H225001-06 (Soil)

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

Chloride	5730		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		98.1 %		69.9-140	2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane		87.4 %		45.3-161	2102717	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane		95.8 %		46.3-178	2102717	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 29 E 2-4 FT
H225001-07 (Soil)

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

Chloride	400		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.4 %		69.9-140	2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			83.2 %		45.3-161	2102717	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			94.1 %		46.3-178	2102717	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 29 E 4.5 FT
H225001-08 (Soil)

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

Chloride	208		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.5 %		69.9-140	2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctane</i>			83.7 %		45.3-161	2102717	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			92.9 %		46.3-178	2102717	MS	28-Oct-22	8015B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 30 SE 0-2 FT
H225001-09 (Soil)

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

Chloride	6000		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.1 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			83.0 %	45.3-161		2102717	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			92.4 %	46.3-178		2102717	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 30 SE 2-4 FT
H225001-10 (Soil)

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

Chloride	6260		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		100 %		69.9-140		2102637	JH	30-Oct-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102717	MS	28-Oct-22	8015B	

Surrogate: 1-Chlorooctane		79.5 %		45.3-161		2102717	MS	28-Oct-22	8015B	
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Surrogate: 1-Chlorooctadecane		88.9 %		46.3-178		2102717	MS	28-Oct-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 30 SE 4.5 FT
H225001-11 (Soil)

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

Chloride	5060		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	69.9-140		2102637	JH	30-Oct-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			74.6 %	45.3-161		2102718	MS	28-Oct-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.6 %	46.3-178		2102718	MS	28-Oct-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 33 0-2 FT
H225001-12 (Soil)

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

Chloride	384		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			75.2 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			88.9 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 33 2-4 FT
H225001-13 (Soil)

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

Chloride	112		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.5 %		69.9-140	2102637	JH	30-Oct-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			72.1 %		45.3-161	2102718	MS	28-Oct-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.3 %		46.3-178	2102718	MS	28-Oct-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 34 E 0-2 FT
H225001-14 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	2102757	AC	27-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.7 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			76.9 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			90.8 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 36 0-2 FT
H225001-15 (Soil)

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

Chloride	5280		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	QM-07
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.3 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctane</i>			78.0 %	45.3-161		2102718	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			91.2 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 36 2-4 FT
H225001-16 (Soil)

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

Chloride	3440		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		98.9 %		69.9-140	2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane		75.1 %		45.3-161	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane		87.1 %		46.3-178	2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 36 4.5 FT
H225001-17 (Soil)

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

Chloride	2160		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.6 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			78.9 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			89.5 %	46.3-178		2102718	MS	28-Oct-22	8015B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 37 0-2 FT
H225001-18 (Soil)

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

Chloride	112		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		99.9 %		69.9-140	2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane		71.5 %		45.3-161	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane		81.2 %		46.3-178	2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 38 NE 0-2 FT
H225001-19 (Soil)

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

Chloride	7200		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.9 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			73.3 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			83.0 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 38 NE 2-4 FT
H225001-20 (Soil)

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

Chloride	7280		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.2 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			73.7 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			85.8 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 38 NE 4.5 FT
H225001-21 (Soil)

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

Chloride	4560		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.8 %		69.9-140	2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			70.0 %		45.3-161	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			81.3 %		46.3-178	2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 39 N 0-2 FT
H225001-22 (Soil)

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

Chloride	720		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.4 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			99.0 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			116 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 39 N 2-4 FT
H225001-23 (Soil)

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

Chloride	3520		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.9 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			74.0 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			85.6 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 39 N 4.5 FT
H225001-24 (Soil)

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

Chloride	1600		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102637	JH	30-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.9 %	69.9-140		2102637	JH	30-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			72.0 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			88.2 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 40 S 0-2 FT
H225001-25 (Soil)

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

Chloride	320		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.6 %	69.9-140		2102638	JH	31-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			74.9 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			90.2 %	46.3-178		2102718	MS	28-Oct-22	8015B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 40 S 2-4 FT
H225001-26 (Soil)

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

Chloride	240		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.1 %	69.9-140		2102638	JH	31-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctane</i>			71.8 %	45.3-161		2102718	MS	28-Oct-22	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			84.7 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 41 0-2 FT
H225001-27 (Soil)

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

Chloride	192		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.6 %		69.9-140	2102638	JH	31-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			73.1 %		45.3-161	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			87.8 %		46.3-178	2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 41 2-4 FT
H225001-28 (Soil)

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

Chloride	368		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.9 %		69.9-140	2102638	JH	31-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			69.9 %		45.3-161	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			87.5 %		46.3-178	2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 43 SE 0-2 FT
H225001-29 (Soil)

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

Chloride	144		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.7 %	69.9-140		2102638	JH	31-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			76.9 %	45.3-161		2102718	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			91.9 %	46.3-178		2102718	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 44 0-2 FT
H225001-30 (Soil)

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

Chloride	1640		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.1 %		69.9-140	2102638	JH	31-Oct-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102718	MS	28-Oct-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			73.1 %		45.3-161	2102718	MS	28-Oct-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			84.0 %		46.3-178	2102718	MS	28-Oct-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 44 2-4 FT
H225001-31 (Soil)

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

Chloride	176		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			98.8 %		69.9-140	2102638	JH	31-Oct-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			87.6 %		45.3-161	2102720	MS	28-Oct-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			96.5 %		46.3-178	2102720	MS	28-Oct-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 44 W 0-2 FT
H225001-32 (Soil)

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

Chloride	672		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.1 %	69.9-140		2102638	JH	31-Oct-22	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctane			100 %	45.3-161		2102720	MS	28-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			111 %	46.3-178		2102720	MS	28-Oct-22	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 44 W 2-4 FT
H225001-33 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.1 %	69.9-140		2102638	JH	31-Oct-22	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B	

<i>Surrogate: 1-Chlorooctane</i>			98.0 %	45.3-161		2102720	MS	28-Oct-22	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %	46.3-178		2102720	MS	28-Oct-22	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

GS - 45 N 0-2 FT
H225001-34 (Soil)

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

Chloride	272		16.0	mg/kg	4	2102803	AC	28-Oct-22	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Toluene*	<0.050	0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	2102638	JH	31-Oct-22	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	2102638	JH	31-Oct-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	98.9 %	69.9-140	2102638	JH	31-Oct-22	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	2102720	MS	28-Oct-22	8015B

Surrogate: 1-Chlorooctane	96.6 %	45.3-161	2102720	MS	28-Oct-22	8015B
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Surrogate: 1-Chlorooctadecane	105 %	46.3-178	2102720	MS	28-Oct-22	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2102757 - 1:4 DI Water										
Blank (2102757-BLK1)				Prepared & Analyzed: 27-Oct-22						
Chloride	ND	16.0	mg/kg							
LCS (2102757-BS1)				Prepared & Analyzed: 27-Oct-22						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (2102757-BSD1)				Prepared & Analyzed: 27-Oct-22						
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 2102803 - 1:4 DI Water										
Blank (2102803-BLK1)				Prepared & Analyzed: 28-Oct-22						
Chloride	ND	16.0	mg/kg							
LCS (2102803-BS1)				Prepared & Analyzed: 28-Oct-22						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (2102803-BSD1)				Prepared & Analyzed: 28-Oct-22						
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102636 - Volatiles**Blank (2102636-BLK1)**

Prepared: 26-Oct-22 Analyzed: 31-Oct-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.6	69.9-140			

LCS (2102636-BS1)

Prepared: 26-Oct-22 Analyzed: 30-Oct-22

Benzene	1.97	0.050	mg/kg	2.00		98.5	83.4-122			
Toluene	2.21	0.050	mg/kg	2.00		111	84.2-126			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	84.2-121			
m,p-Xylene	4.30	0.100	mg/kg	4.00		107	89.9-126			
o-Xylene	2.10	0.050	mg/kg	2.00		105	84.3-123			
Total Xylenes	6.39	0.150	mg/kg	6.00		107	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	69.9-140			

LCS Dup (2102636-BS1)

Prepared: 26-Oct-22 Analyzed: 31-Oct-22

Benzene	1.76	0.050	mg/kg	2.00		88.2	83.4-122	11.1	12.6	
Toluene	1.98	0.050	mg/kg	2.00		98.9	84.2-126	11.2	13.3	
Ethylbenzene	1.88	0.050	mg/kg	2.00		94.0	84.2-121	11.8	13.9	
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.8	89.9-126	12.5	13.6	
o-Xylene	1.86	0.050	mg/kg	2.00		92.9	84.3-123	12.2	14.1	
Total Xylenes	5.65	0.150	mg/kg	6.00		94.2	89.1-124	12.4	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0513		mg/kg	0.0500		103	69.9-140			

Batch 2102637 - Volatiles**Blank (2102637-BLK1)**

Prepared: 26-Oct-22 Analyzed: 30-Oct-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102637 - Volatiles**Blank (2102637-BLK1)**

Prepared: 26-Oct-22 Analyzed: 30-Oct-22

Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		96.7	69.9-140			

LCS (2102637-BS1)

Prepared: 26-Oct-22 Analyzed: 30-Oct-22

Benzene	1.91	0.050	mg/kg	2.00		95.4	83.4-122			
Toluene	2.11	0.050	mg/kg	2.00		106	84.2-126			
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	84.2-121			
m,p-Xylene	4.10	0.100	mg/kg	4.00		103	89.9-126			
o-Xylene	2.01	0.050	mg/kg	2.00		100	84.3-123			
Total Xylenes	6.11	0.150	mg/kg	6.00		102	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	69.9-140			

LCS Dup (2102637-BSD1)

Prepared: 26-Oct-22 Analyzed: 30-Oct-22

Benzene	1.96	0.050	mg/kg	2.00		98.1	83.4-122	2.72	12.6	
Toluene	2.16	0.050	mg/kg	2.00		108	84.2-126	2.05	13.3	
Ethylbenzene	2.02	0.050	mg/kg	2.00		101	84.2-121	0.261	13.9	
m,p-Xylene	4.12	0.100	mg/kg	4.00		103	89.9-126	0.413	13.6	
o-Xylene	2.01	0.050	mg/kg	2.00		101	84.3-123	0.291	14.1	
Total Xylenes	6.13	0.150	mg/kg	6.00		102	89.1-124	0.373	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.7	69.9-140			

Batch 2102638 - Volatiles**Blank (2102638-BLK1)**

Prepared: 26-Oct-22 Analyzed: 31-Oct-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		96.5	69.9-140			

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102638 - Volatiles**LCS (2102638-BS1)**

Prepared: 26-Oct-22 Analyzed: 31-Oct-22

Benzene	1.93	0.050	mg/kg	2.00		96.6	83.4-122		
Toluene	2.13	0.050	mg/kg	2.00		107	84.2-126		
Ethylbenzene	2.03	0.050	mg/kg	2.00		102	84.2-121		
m,p-Xylene	4.14	0.100	mg/kg	4.00		103	89.9-126		
o-Xylene	2.02	0.050	mg/kg	2.00		101	84.3-123		
Total Xylenes	6.16	0.150	mg/kg	6.00		103	89.1-124		
Surrogate: 4-Bromofluorobenzene (PID)	0.0510		mg/kg	0.0500		102	69.9-140		

LCS Dup (2102638-BS1)

Prepared: 26-Oct-22 Analyzed: 31-Oct-22

Benzene	1.86	0.050	mg/kg	2.00		93.1	83.4-122	3.73	12.6
Toluene	2.09	0.050	mg/kg	2.00		105	84.2-126	2.06	13.3
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.4	84.2-121	2.15	13.9
m,p-Xylene	4.04	0.100	mg/kg	4.00		101	89.9-126	2.43	13.6
o-Xylene	1.94	0.050	mg/kg	2.00		97.0	84.3-123	3.94	14.1
Total Xylenes	5.98	0.150	mg/kg	6.00		99.6	89.1-124	2.92	13.4
Surrogate: 4-Bromofluorobenzene (PID)	0.0499		mg/kg	0.0500		99.8	69.9-140		

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102717 - General Prep - Organics**Blank (2102717-BLK1)**

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	44.0		mg/kg	50.0		87.9	45.3-161		
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.3	46.3-178		

LCS (2102717-BS1)

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

GRO C6-C10	175	10.0	mg/kg	200		87.5	76.8-124		
DRO >C10-C28	196	10.0	mg/kg	200		98.0	74.9-127		
Total TPH C6-C28	371	10.0	mg/kg	400		92.7	77.5-124		
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.9	45.3-161		
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0		107	46.3-178		

LCS Dup (2102717-BS1)

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

GRO C6-C10	167	10.0	mg/kg	200		83.6	76.8-124	4.45	17.2
DRO >C10-C28	177	10.0	mg/kg	200		88.6	74.9-127	10.1	18.6
Total TPH C6-C28	344	10.0	mg/kg	400		86.1	77.5-124	7.37	17.6
Surrogate: 1-Chlorooctane	45.2		mg/kg	50.0		90.5	45.3-161		
Surrogate: 1-Chlorooctadecane	52.3		mg/kg	50.0		105	46.3-178		

Batch 2102718 - General Prep - Organics**Blank (2102718-BLK1)**

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	40.3		mg/kg	50.0		80.6	45.3-161		
Surrogate: 1-Chlorooctadecane	47.1		mg/kg	50.0		94.2	46.3-178		

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102718 - General Prep - Organics**LCS (2102718-BS1)**

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

GRO C6-C10	207	10.0	mg/kg	200		104	76.8-124			
DRO >C10-C28	231	10.0	mg/kg	200		115	74.9-127			
Total TPH C6-C28	438	10.0	mg/kg	400		110	77.5-124			
Surrogate: 1-Chlorooctane	45.5		mg/kg	50.0		91.0	45.3-161			
Surrogate: 1-Chlorooctadecane	56.1		mg/kg	50.0		112	46.3-178			

LCS Dup (2102718-BS1)

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

GRO C6-C10	205	10.0	mg/kg	200		102	76.8-124	1.22	17.2	
DRO >C10-C28	229	10.0	mg/kg	200		115	74.9-127	0.655	18.6	
Total TPH C6-C28	434	10.0	mg/kg	400		108	77.5-124	0.924	17.6	
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		93.0	45.3-161			
Surrogate: 1-Chlorooctadecane	58.4		mg/kg	50.0		117	46.3-178			

Batch 2102720 - General Prep - Organics**Blank (2102720-BLK1)**

Prepared & Analyzed: 27-Oct-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.0		mg/kg	50.0		89.9	45.3-161			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.7	46.3-178			

LCS (2102720-BS1)

Prepared & Analyzed: 27-Oct-22

GRO C6-C10	195	10.0	mg/kg	200		97.4	76.8-124			
DRO >C10-C28	180	10.0	mg/kg	200		90.1	74.9-127			
Total TPH C6-C28	375	10.0	mg/kg	400		93.8	77.5-124			
Surrogate: 1-Chlorooctane	44.7		mg/kg	50.0		89.3	45.3-161			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	46.3-178			

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
01-Nov-22 10:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102720 - General Prep - Organics**LCS Dup (2102720-BSD1)**

Prepared & Analyzed: 27-Oct-22

GRO C6-C10	187	10.0	mg/kg	200		93.3	76.8-124	4.35	17.2	
DRO >C10-C28	180	10.0	mg/kg	200		90.1	74.9-127	0.0649	18.6	
Total TPH C6-C28	367	10.0	mg/kg	400		91.7	77.5-124	2.20	17.6	
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.6	45.3-161			
Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	46.3-178			

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amerceder</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Andrew Pocher</u>		P.O. #: <u>20220826-0245-water</u>			
Address: <u>On File</u>		Company: <u>Amerceder</u>			
City: _____ State: _____ Zip: _____		Attn: <u>apocher@amerceder.com</u>			
Phone #: _____ Fax #: _____		Address: _____			
Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____			
Project Name: <u>20220826-0245-water</u>		Phone #: _____			
Project Location: <u>Sunoco Booster #2 10-24 JP</u>		Fax #: _____			
Sampler Name: <u>Jesus Palomares</u>					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	ANALYSIS	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL				
H25001	GS-27 0-24	G	1									10-24-22	8:13	Chloride	
	GS-27 2-44												8:21	BTEX (Benzene)	
	GS-27 4.54												8:31	TPH (GRO+DRO+MRO)	
	GS-29 0-24												8:37		
	GS-29 2-44												8:47		
	GS-29 0-24												8:52		
	GS-29 2-44												9:01		
	GS-29 2-44												9:08		
	GS-30SE 4.54												9:20		
	GS-30SE 0-24												9:26		
	GS-30SE 2-44														

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Relinquished By: <u>[Signature]</u>	Date: <u>10-24-22</u>	Received By: <u>[Signature]</u>	Date: <u>10-24-22</u>
Time: <u>1:40</u>	Time: <u>1:40</u>	Time: <u>1:40</u>	Time: <u>1:40</u>

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: <u>[Signature]</u>	Turnaround Time:	Standard	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact			Rush	Cool Intact
		Yes <input type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>
						Observed Temp. °C
						Corrected Temp. °C

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

REMARKS: All Results are emailed. Please provide Email address:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amercedev		BILL TO		ANALYSIS REQUEST	
Project Manager: Andrew Parker		P.O. #: 20220826-0245-water			
Address: On-File		Company: Amercedev			
City: _____ State: _____ Zip: _____		Attn: a.parker@amercedev.com			
Phone #: _____ Fax #: _____		Address: _____			
Project #: _____ Project Owner: _____		City: _____ State: _____ Zip: _____			
Project Name: 20220826-0245-water		Phone #: _____			
Project Location: Sumaco Booster #3 JP 10-24		Fax #: _____			
Sampler Name: Jesus Palomares					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	ANALYSIS	REMARKS	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL					OTHER :
H225001																
11	GS-30SE	4.5ft	1									10-24-22	9:32	✓	Chloride	
12	GS-33	0-2ft	1										9:42	✓	TPH (GRO+ DRO+ MRO)	
13	GS-33	2-4ft	1										9:48	✓	BTEX (Benzene)	
14	GS-34E	0-2ft	1										9:57	✓		
15	GS-36	0-2ft	1										10:07	✓		
16	GS-36	2-4ft	1										10:17	✓		
17	GS-36	4.5ft	1										10:22	✓		
18	GS-37	0-2ft	1										10:28	✓		
19	GS-38NE	0-2ft	1										10:33	✓		
20	GS-38NE	2-4ft	1										10:41	✓		

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Relinquished By: Am Parker	Date: 10-24-22	Received By: Stodolny	Date: 10-24-22
Relinquished By: _____	Date: _____	Received By: _____	Date: _____

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY:	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact	(Initials)	Thermometer ID #113	Rush	Cool Intact	Observed Temp. °C
		Yes No		Correction Factor -0.6°C		Yes No	Corrected Temp. °C

Verbal Result: ☐ Yes ☐ No Add'l Phone #: _____
All Results are emailed. Please provide Email address: _____

REMARKS: _____

FORM-006 REV 07/10/22

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <u>Amerder</u>		P.O. #: <u>20220826-0245-water</u>	
Project Manager: <u>Andrew Parker</u>		Company: <u>Amerder</u>	
Address: <u>On-File</u>		Attn: <u>aparker@amerder.com</u>	
City:	State:	Zip:	Address:
Phone #:	Fax #:	City:	State:
Project #:	Project Owner:	Zip:	Phone #:
Project Name: <u>20220826-0245-water</u>		Fax #:	
Project Location: <u>Sanaco Booster #2 JP 10-24</u>			
Sampler Name: <u>Jesus Palomares</u>			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX						PRESERV		SAMPLING					
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME			
H225001	G5-38NE	4.5H		1											10-24-22	10:47	✓	Chloride	
21	G5-39N	0-2H		1											10:58	11:07	✓	TPH (GRO+DRO+MRO)	
22	G5-39N	2-4H															✓	BTEX (Benzene)	
23	G5-39N	4.5H																	
24	G5-40S	0-2H																	
25	G5-40S	2-4H																	
26	G5-41	0-2H																	
27	G5-41	2-4H																	
28	G5-43SE	0-2H																	
29	G5-44	0-2H																	
30																			

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Relinquished By: <u>Am</u>	Date: <u>10-24-22</u>	Received By: <u>Spedidier</u>
Time: <u>1040</u>	Date: <u>10-24-22</u>	Time: <u>1040</u>
Relinquished By: <u>Am</u>	Date: <u>10-24-22</u>	Received By: <u>Spedidier</u>
Time: <u>1040</u>	Date: <u>10-24-22</u>	Time: <u>1040</u>

Delivered By: (Circle One)	Observed Temp. °C	Corrected Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	24.2	1.8	Cool Intact	SP	11:13	Rush	Cool Intact	Observed Temp. °C
			Yes No				Yes No	Corrected Temp. °C

FORM-006 R3.3 07/16/22

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

November 02, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: SUNOCO BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 10/25/22 15:37.

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/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
GS - 01 2FT	H225018-01	Soil	25-Oct-22 08:34	25-Oct-22 15:37
GS - 01 S 0-2FT	H225018-02	Soil	25-Oct-22 08:52	25-Oct-22 15:37
GS - 02 2FT	H225018-03	Soil	25-Oct-22 09:02	25-Oct-22 15:37
GS - 02 E 0-2FT	H225018-04	Soil	25-Oct-22 09:10	25-Oct-22 15:37
GS - 03 2FT	H225018-05	Soil	25-Oct-22 09:15	25-Oct-22 15:37
GS - 04 0.5-2FT	H225018-06	Soil	25-Oct-22 09:27	25-Oct-22 15:37
GS - 04 2-3FT	H225018-07	Soil	25-Oct-22 09:33	25-Oct-22 15:37
GS - 04 W 0-2FT	H225018-08	Soil	25-Oct-22 09:44	25-Oct-22 15:37
GS - 05 2FT	H225018-09	Soil	25-Oct-22 09:51	25-Oct-22 15:37
GS - 06 2FT	H225018-10	Soil	25-Oct-22 09:59	25-Oct-22 15:37
GS - 07 2FT	H225018-11	Soil	25-Oct-22 10:05	25-Oct-22 15:37
GS - 08 2FT	H225018-12	Soil	25-Oct-22 10:12	25-Oct-22 15:37
GS - 12 2FT	H225018-13	Soil	25-Oct-22 10:22	25-Oct-22 15:37
GS - 13 2FT	H225018-14	Soil	25-Oct-22 10:30	25-Oct-22 15:37
GS - 18 4.25FT	H225018-15	Soil	25-Oct-22 10:41	25-Oct-22 15:37
GS - 19 4.25FT	H225018-16	Soil	25-Oct-22 10:50	25-Oct-22 15:37
GS - 19 E 0-2FT	H225018-17	Soil	25-Oct-22 11:01	25-Oct-22 15:37
GS - 19 E 2-4FT	H225018-18	Soil	25-Oct-22 11:06	25-Oct-22 15:37
GS - 19 E 4.25FT	H225018-19	Soil	25-Oct-22 11:10	25-Oct-22 15:37
GS - 20 4.25FT	H225018-20	Soil	25-Oct-22 11:17	25-Oct-22 15:37
GS - 20 W 0-2FT	H225018-21	Soil	25-Oct-22 11:22	25-Oct-22 15:37
GS - 20 W 2-4FT	H225018-22	Soil	25-Oct-22 11:28	25-Oct-22 15:37
GS - 20 W 4.25FT	H225018-23	Soil	25-Oct-22 11:31	25-Oct-22 15:37
GS - 21 4.25FT	H225018-24	Soil	25-Oct-22 11:35	25-Oct-22 15:37
GS - 22 4.25FT	H225018-25	Soil	25-Oct-22 11:40	25-Oct-22 15:37
GS - 22 E 0-2FT	H225018-26	Soil	25-Oct-22 11:47	25-Oct-22 15:37
GS - 22 E 2-4FT	H225018-27	Soil	25-Oct-22 11:51	25-Oct-22 15:37

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 22 E 4.25FT	H225018-28	Soil	25-Oct-22 11:54	25-Oct-22 15:37
GS - 23 4.25FT	H225018-29	Soil	25-Oct-22 12:02	25-Oct-22 15:37
GS - 24 4.25FT	H225018-30	Soil	25-Oct-22 12:11	25-Oct-22 15:37
GS - 25 4.25FT	H225018-31	Soil	25-Oct-22 12:20	25-Oct-22 15:37
GS - 26 0-2FT	H225018-32	Soil	25-Oct-22 12:27	25-Oct-22 15:37
GS - 26 2-4FT	H225018-33	Soil	25-Oct-22 12:35	25-Oct-22 15:37
GS - 26 4.5FT	H225018-34	Soil	25-Oct-22 12:50	25-Oct-22 15:37
GS - 26 N 0-2FT	H225018-35	Soil	25-Oct-22 12:59	25-Oct-22 15:37

11/02/22 - Client changed the sample IDs on -17, -18 and -19 (See COC). This is the revised report and will replace the one sent earlier today, 11/02/22.

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 01 2FT
H225018-01 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102736	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102736	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102736	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			92.9 %	45.3-161		2102736	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			100 %	46.3-178		2102736	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Surrogate: Dibromofluoromethane			98.0 %	86.7-111		2102727	MS	01-Nov-22	8260B	
Surrogate: Toluene-d8			93.3 %	89.3-110		2102727	MS	01-Nov-22	8260B	
Surrogate: 4-Bromofluorobenzene			104 %	88.2-108		2102727	MS	01-Nov-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 01 S 0-2FT**H225018-02 (Soil)**

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	160		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102736	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102736	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102736	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			99.8 %	45.3-161		2102736	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			108 %	46.3-178		2102736	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102727	MS	01-Nov-22	8260B	
Surrogate: Dibromofluoromethane			97.5 %	86.7-111		2102727	MS	01-Nov-22	8260B	
Surrogate: Toluene-d8			91.9 %	89.3-110		2102727	MS	01-Nov-22	8260B	
Surrogate: 4-Bromofluorobenzene			103 %	88.2-108		2102727	MS	01-Nov-22	8260B	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 02 2FT
H225018-03 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			99.4 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			109 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Surrogate: Dibromofluoromethane			97.4 %	86.7-111		2102727	MS	02-Nov-22	8260B	
Surrogate: Toluene-d8			95.1 %	89.3-110		2102727	MS	02-Nov-22	8260B	
Surrogate: 4-Bromofluorobenzene			104 %	88.2-108		2102727	MS	02-Nov-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 02 E 0-2FT**H225018-04 (Soil)**

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

Chloride	80.0		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			93.8 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			103 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Surrogate: Dibromofluoromethane			98.1 %	86.7-111		2102727	MS	02-Nov-22	8260B	
Surrogate: Toluene-d8			94.6 %	89.3-110		2102727	MS	02-Nov-22	8260B	
Surrogate: 4-Bromofluorobenzene			103 %	88.2-108		2102727	MS	02-Nov-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 03 2FT
H225018-05 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			98.5 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			108 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Surrogate: Dibromofluoromethane			97.4 %	86.7-111		2102727	MS	02-Nov-22	8260B	
Surrogate: Toluene-d8			93.6 %	89.3-110		2102727	MS	02-Nov-22	8260B	
Surrogate: 4-Bromofluorobenzene			102 %	88.2-108		2102727	MS	02-Nov-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 04 0.5-2FT**H225018-06 (Soil)**

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

Chloride	5120		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			93.1 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			102 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102727	MS	02-Nov-22	8260B	
Surrogate: Dibromofluoromethane			97.5 %	86.7-111		2102727	MS	02-Nov-22	8260B	
Surrogate: Toluene-d8			95.5 %	89.3-110		2102727	MS	02-Nov-22	8260B	
Surrogate: 4-Bromofluorobenzene			103 %	88.2-108		2102727	MS	02-Nov-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 04 2-3FT**H225018-07 (Soil)**

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

Chloride	8660		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			101 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			112 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			97.7 %	83.7-114		2102151	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			102 %	95.3-107		2102151	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			97.5 %	50.9-150		2102151	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 04 W 0-2FT
H225018-08 (Soil)

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

Chloride	112		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			96.8 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			106 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			98.7 %	83.7-114		2102151	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3-107		2102151	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			96.6 %	50.9-150		2102151	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 05 2FT
H225018-09 (Soil)

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

Chloride	128		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			87.4 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			96.5 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			98.7 %	83.7-114		2102151	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			97.9 %	95.3-107		2102151	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			99.9 %	50.9-150		2102151	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 06 2FT
H225018-10 (Soil)

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

Chloride	144		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			96.0 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			104 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			98.8 %	83.7-114		2102151	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3-107		2102151	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			97.9 %	50.9-150		2102151	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 07 2FT
H225018-11 (Soil)

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

Chloride	208		16.0	mg/kg	4	2102728	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			96.5 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			106 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			98.7 %	83.7-114		2102151	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			100 %	95.3-107		2102151	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			97.0 %	50.9-150		2102151	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 08 2FT
H225018-12 (Soil)

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

Chloride	192		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			86.7 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			93.9 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			96.2 %	83.7-114		2102151	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			98.0 %	95.3-107		2102151	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			99.1 %	50.9-150		2102151	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 12 2FT
H225018-13 (Soil)

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

Chloride	192		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			100 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			108 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			96.4 %	83.7-114		2102151	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			97.5 %	95.3-107		2102151	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			99.5 %	50.9-150		2102151	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 13 2FT
H225018-14 (Soil)

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

Chloride	224		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			76.3 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			82.9 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			98.3 %	83.7-114		2102151	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			100 %	95.3-107		2102151	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			95.6 %	50.9-150		2102151	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 18 4.25FT**H225018-15 (Soil)**

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

Chloride	832		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			103 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			110 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102151	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			98.2 %	83.7-114		2102151	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3-107		2102151	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			97.3 %	50.9-150		2102151	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 19 4.25FT**H225018-16 (Soil)**

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

Chloride	4560		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	

Surrogate: 1-Chlorooctane

87.6 %

45.3-161

2102737

MS

29-Oct-22

8015B

Surrogate: 1-Chlorooctadecane

95.6 %

46.3-178

2102737

MS

29-Oct-22

8015B

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	

Surrogate: Dibromofluoromethane

103 %

83.7-114

2102729

MS

28-Oct-22

8260B

Surrogate: Toluene-d8

101 %

95.3-107

2102729

MS

28-Oct-22

8260B

Surrogate: 4-Bromofluorobenzene

95.8 %

50.9-150

2102729

MS

28-Oct-22

8260B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 19 E 0-2FT
H225018-17 (Soil)

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

Chloride	144		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			103 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			113 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			99.4 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			97.1 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 19 E 2-4FT
H225018-18 (Soil)

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

Chloride	1100		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			108 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			121 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			97.3 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			97.8 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			99.4 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 19 E 4.25FT**H225018-19 (Soil)**

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

Chloride	2120		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			101 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			110 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			98.1 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			100 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			96.6 %	50.9-150		2102729	MS	28-Oct-22	8260B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 20 4.25FT**H225018-20 (Soil)**

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

Chloride	1100		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			101 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			111 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			99.2 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			96.8 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 20 W 0-2FT**H225018-21 (Soil)**

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

Chloride	48.0		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			98.4 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			106 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			103 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			102 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			99.2 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 20 W 2-4FT
H225018-22 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			104 %	45.3-161		2102737	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			112 %	46.3-178		2102737	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			97.3 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			102 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			97.6 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 20 W 4.25FT**H225018-23 (Soil)**

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

Chloride	176		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			87.2 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			102 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			99.3 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			98.0 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			102 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 21 4.25FT**H225018-24 (Soil)**

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

Chloride	352		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			95.5 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			111 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			96.8 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			97.4 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			100 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 22 4.25FT**H225018-25 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			92.9 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			108 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			97.3 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			97.7 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			101 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 22 E 0-2FT
H225018-26 (Soil)

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

Chloride	608		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			75.9 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			88.1 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			94.6 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			98.2 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			99.0 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 22 E 2-4FT
H225018-27 (Soil)

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

Chloride	704		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			85.4 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			99.0 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B**S-04**

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			98.3 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			93.4 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			101 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 22 E 4.25FT
H225018-28 (Soil)

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

Chloride	160		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			90.4 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			105 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			99.9 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			95.9 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			99.2 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 23 4.25FT**H225018-29 (Soil)**

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

Chloride	288		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			80.6 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			98.5 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			104 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			97.3 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			100 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 24 4.25FT**H225018-30 (Soil)**

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

Chloride	1880		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			97.4 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			114 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			100 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			97.2 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			97.8 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 25 4.25FT**H225018-31 (Soil)**

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

Chloride	3600		16.0	mg/kg	4	2102810	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			93.3 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			113 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			103 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			96.2 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			101 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 26 0-2FT**H225018-32 (Soil)**

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

Chloride	800		16.0	mg/kg	4	2102760	AC	28-Oct-22	4500-Cl-B	QM-07
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			83.0 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			96.2 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			104 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			103 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			98.6 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 26 2-4FT**H225018-33 (Soil)**

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

Chloride	96.0		16.0	mg/kg	4	2102760	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			89.1 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			106 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			98.7 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			101 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			100 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 26 4.5FT**H225018-34 (Soil)**

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

Chloride	192		16.0	mg/kg	4	2102760	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			92.7 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			107 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			101 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			98.4 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			100 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

GS - 26 N 0-2FT
H225018-35 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	2102760	AC	28-Oct-22	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctane			80.8 %	45.3-161		2102738	MS	29-Oct-22	8015B	
Surrogate: 1-Chlorooctadecane			93.5 %	46.3-178		2102738	MS	29-Oct-22	8015B	

Volatile Organic Compounds by EPA Method 8260B

Benzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Toluene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Ethylbenzene*	<0.025		0.025	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total Xylenes*	<0.075		0.075	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Total BTEX	<0.150		0.150	mg/kg	50	2102729	MS	28-Oct-22	8260B	
Surrogate: Dibromofluoromethane			99.8 %	83.7-114		2102729	MS	28-Oct-22	8260B	
Surrogate: Toluene-d8			96.2 %	95.3-107		2102729	MS	28-Oct-22	8260B	
Surrogate: 4-Bromofluorobenzene			103 %	50.9-150		2102729	MS	28-Oct-22	8260B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

Inorganic Compounds - Quality Control**Cardinal Laboratories**

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

Batch 2102728 - 1:4 DI Water**Blank (2102728-BLK1)**

Prepared & Analyzed: 27-Oct-22

Chloride	ND	16.0	mg/kg
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LCS (2102728-BS1)

Prepared & Analyzed: 27-Oct-22

Chloride	448	16.0	mg/kg	400	112	80-120
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LCS Dup (2102728-BSD1)

Prepared & Analyzed: 27-Oct-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.64	20
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Batch 2102760 - 1:4 DI Water**Blank (2102760-BLK1)**

Prepared & Analyzed: 27-Oct-22

Chloride	ND	16.0	mg/kg
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LCS (2102760-BS1)

Prepared & Analyzed: 27-Oct-22

Chloride	416	16.0	mg/kg	400	104	80-120
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LCS Dup (2102760-BSD1)

Prepared & Analyzed: 27-Oct-22

Chloride	432	16.0	mg/kg	400	108	80-120	3.77	20
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Batch 2102810 - 1:4 DI Water**Blank (2102810-BLK1)**

Prepared & Analyzed: 28-Oct-22

Chloride	ND	16.0	mg/kg
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LCS (2102810-BS1)

Prepared & Analyzed: 28-Oct-22

Chloride	432	16.0	mg/kg	400	108	80-120
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102810 - 1:4 DI Water**LCS Dup (2102810-BSD1)**

Prepared & Analyzed: 28-Oct-22

Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	
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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102736 - General Prep - Organics**Blank (2102736-BLK1)**

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0		94.8	45.3-161		
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	46.3-178		

LCS (2102736-BS1)

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

GRO C6-C10	198	10.0	mg/kg	200		98.8	76.8-124		
DRO >C10-C28	182	10.0	mg/kg	200		91.2	74.9-127		
Total TPH C6-C28	380	10.0	mg/kg	400		95.0	77.5-124		
Surrogate: 1-Chlorooctane	52.5		mg/kg	50.0		105	45.3-161		
Surrogate: 1-Chlorooctadecane	61.2		mg/kg	50.0		122	46.3-178		

LCS Dup (2102736-BS1)

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

GRO C6-C10	193	10.0	mg/kg	200		96.4	76.8-124	2.42	17.2
DRO >C10-C28	167	10.0	mg/kg	200		83.7	74.9-127	8.63	18.6
Total TPH C6-C28	360	10.0	mg/kg	400		90.0	77.5-124	5.36	17.6
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	45.3-161		
Surrogate: 1-Chlorooctadecane	62.4		mg/kg	50.0		125	46.3-178		

Batch 2102737 - General Prep - Organics**Blank (2102737-BLK1)**

Prepared: 27-Oct-22 Analyzed: 29-Oct-22

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	45.3-161		
Surrogate: 1-Chlorooctadecane	52.3		mg/kg	50.0		105	46.3-178		

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102737 - General Prep - Organics**LCS (2102737-BS1)**

Prepared: 27-Oct-22 Analyzed: 29-Oct-22

GRO C6-C10	240	10.0	mg/kg	200		120	76.8-124		
DRO >C10-C28	236	10.0	mg/kg	200		118	74.9-127		
Total TPH C6-C28	476	10.0	mg/kg	400		119	77.5-124		
Surrogate: 1-Chlorooctane	65.6		mg/kg	50.0		131	45.3-161		
Surrogate: 1-Chlorooctadecane	77.3		mg/kg	50.0		155	46.3-178		

LCS Dup (2102737-BSD1)

Prepared: 27-Oct-22 Analyzed: 29-Oct-22

GRO C6-C10	204	10.0	mg/kg	200		102	76.8-124	16.0	17.2	
DRO >C10-C28	179	10.0	mg/kg	200		89.6	74.9-127	27.4	18.6	QR-04
Total TPH C6-C28	384	10.0	mg/kg	400		95.9	77.5-124	21.5	17.6	QR-04
Surrogate: 1-Chlorooctane	59.1		mg/kg	50.0		118	45.3-161			
Surrogate: 1-Chlorooctadecane	63.2		mg/kg	50.0		126	46.3-178			

Batch 2102738 - General Prep - Organics**Blank (2102738-BLK1)**

Prepared: 27-Oct-22 Analyzed: 29-Oct-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.2		mg/kg	50.0		82.3	45.3-161			
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		95.7	46.3-178			

LCS (2102738-BS1)

Prepared: 27-Oct-22 Analyzed: 29-Oct-22

GRO C6-C10	193	10.0	mg/kg	200		96.5	76.8-124			
DRO >C10-C28	193	10.0	mg/kg	200		96.4	74.9-127			
Total TPH C6-C28	386	10.0	mg/kg	400		96.5	77.5-124			
Surrogate: 1-Chlorooctane	46.8		mg/kg	50.0		93.5	45.3-161			
Surrogate: 1-Chlorooctadecane	56.6		mg/kg	50.0		113	46.3-178			

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102738 - General Prep - Organics**LCS Dup (2102738-BSD1)**

Prepared: 27-Oct-22 Analyzed: 29-Oct-22

GRO C6-C10	211	10.0	mg/kg	200		105	76.8-124	8.67	17.2	
DRO >C10-C28	235	10.0	mg/kg	200		117	74.9-127	19.7	18.6	QR-04
Total TPH C6-C28	445	10.0	mg/kg	400		111	77.5-124	14.4	17.6	
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.6	45.3-161			
Surrogate: 1-Chlorooctadecane	59.3		mg/kg	50.0		119	46.3-178			

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102151 - Volatiles**Blank (2102151-BLK1)**

Prepared: 21-Oct-22 Analyzed: 28-Oct-22

Benzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
Ethylbenzene	ND	0.025	mg/kg							
Total Xylenes	ND	0.075	mg/kg							
Total BTEX	ND	0.150	mg/kg							
Surrogate: Dibromofluoromethane	1.20		mg/kg	1.25		95.8	83.7-114			
Surrogate: Toluene-d8	1.25		mg/kg	1.25		99.8	95.3-107			
Surrogate: 4-Bromofluorobenzene	1.25		mg/kg	1.25		100	50.9-150			

LCS (2102151-BS1)

Prepared: 21-Oct-22 Analyzed: 28-Oct-22

Benzene	2.03	0.025	mg/kg	2.00		101	70.2-121			
Toluene	2.08	0.025	mg/kg	2.00		104	76.9-126			
Ethylbenzene	2.01	0.025	mg/kg	2.00		100	79.1-124			
m+p - Xylene	4.14	0.050	mg/kg	4.00		104	80.8-134			
o-Xylene	2.11	0.025	mg/kg	2.00		106	79-130			
Total Xylenes	6.25	0.075	mg/kg	6.00		104	80.5-132			
Surrogate: Dibromofluoromethane	1.20		mg/kg	1.25		96.2	83.7-114			
Surrogate: Toluene-d8	1.27		mg/kg	1.25		102	95.3-107			
Surrogate: 4-Bromofluorobenzene	1.18		mg/kg	1.25		94.1	50.9-150			

LCS Dup (2102151-BSD1)

Prepared: 21-Oct-22 Analyzed: 28-Oct-22

Benzene	1.95	0.025	mg/kg	2.00		97.4	70.2-121	3.87	9.42	
Toluene	1.97	0.025	mg/kg	2.00		98.4	76.9-126	5.55	10	
Ethylbenzene	1.93	0.025	mg/kg	2.00		96.6	79.1-124	3.78	10	
m+p - Xylene	4.03	0.050	mg/kg	4.00		101	80.8-134	2.76	9.6	
Total Xylenes	6.01	0.075	mg/kg	6.00		100	80.5-132	3.91	9.26	
o-Xylene	1.98	0.025	mg/kg	2.00		99.2	79-130	6.20	8.93	
Surrogate: Dibromofluoromethane	1.17		mg/kg	1.25		93.8	83.7-114			
Surrogate: Toluene-d8	1.24		mg/kg	1.25		99.0	95.3-107			
Surrogate: 4-Bromofluorobenzene	1.23		mg/kg	1.25		98.3	50.9-150			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102727 - Volatiles**Blank (2102727-BLK1)**

Prepared: 27-Oct-22 Analyzed: 01-Nov-22

Benzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
Ethylbenzene	ND	0.025	mg/kg							
Total Xylenes	ND	0.075	mg/kg							
Total BTEX	ND	0.150	mg/kg							
Surrogate: Dibromofluoromethane	1.26		mg/kg	1.25		101	86.7-111			
Surrogate: Toluene-d8	1.17		mg/kg	1.25		93.7	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.30		mg/kg	1.25		104	88.2-108			

LCS (2102727-BS1)

Prepared: 27-Oct-22 Analyzed: 01-Nov-22

Benzene	0.490	0.025	mg/kg	0.500		98.1	70.2-121			
Toluene	0.470	0.025	mg/kg	0.500		94.0	76.9-126			
Ethylbenzene	0.489	0.025	mg/kg	0.500		97.9	79.1-124			
m+p - Xylene	0.957	0.050	mg/kg	1.00		95.7	80.8-134			
Total Xylenes	1.47	0.075	mg/kg	1.50		97.9	80.5-132			
o-Xylene	0.512	0.025	mg/kg	0.500		102	79-130			
Surrogate: Dibromofluoromethane	1.26		mg/kg	1.25		101	86.7-111			
Surrogate: Toluene-d8	1.18		mg/kg	1.25		94.8	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.29		mg/kg	1.25		104	88.2-108			

LCS Dup (2102727-BS1)

Prepared: 27-Oct-22 Analyzed: 01-Nov-22

Benzene	0.473	0.025	mg/kg	0.500		94.5	70.2-121	3.71	11.1	
Toluene	0.457	0.025	mg/kg	0.500		91.4	76.9-126	2.72	12.2	
Ethylbenzene	0.472	0.025	mg/kg	0.500		94.3	79.1-124	3.71	12.3	
m+p - Xylene	0.929	0.050	mg/kg	1.00		92.9	80.8-134	2.89	11.5	
Total Xylenes	1.42	0.075	mg/kg	1.50		94.8	80.5-132	3.27	11.7	
o-Xylene	0.492	0.025	mg/kg	0.500		98.5	79-130	3.98	12.3	
Surrogate: Dibromofluoromethane	1.23		mg/kg	1.25		98.2	86.7-111			
Surrogate: Toluene-d8	1.19		mg/kg	1.25		95.1	89.3-110			
Surrogate: 4-Bromofluorobenzene	1.29		mg/kg	1.25		103	88.2-108			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

Volatile Organic Compounds by EPA Method 8260B - Quality Control**Cardinal Laboratories**

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

Batch 2102729 - Volatiles**Blank (2102729-BLK1)**

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

Benzene	ND	0.025	mg/kg							
Toluene	ND	0.025	mg/kg							
Ethylbenzene	ND	0.025	mg/kg							
Total Xylenes	ND	0.075	mg/kg							
Total BTEX	ND	0.150	mg/kg							
Surrogate: Dibromofluoromethane	1.28		mg/kg	1.25		102	83.7-114			
Surrogate: Toluene-d8	1.29		mg/kg	1.25		103	95.3-107			
Surrogate: 4-Bromofluorobenzene	1.23		mg/kg	1.25		98.6	50.9-150			

LCS (2102729-BS1)

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

Benzene	1.95	0.025	mg/kg	2.00		97.7	70.2-121			
Toluene	1.95	0.025	mg/kg	2.00		97.7	76.9-126			
Ethylbenzene	1.95	0.025	mg/kg	2.00		97.6	79.1-124			
m+p - Xylene	4.07	0.050	mg/kg	4.00		102	80.8-134			
o-Xylene	2.00	0.025	mg/kg	2.00		100	79-130			
Total Xylenes	6.07	0.075	mg/kg	6.00		101	80.5-132			
Surrogate: Dibromofluoromethane	1.21		mg/kg	1.25		96.5	83.7-114			
Surrogate: Toluene-d8	1.24		mg/kg	1.25		99.1	95.3-107			
Surrogate: 4-Bromofluorobenzene	1.22		mg/kg	1.25		97.8	50.9-150			

LCS Dup (2102729-BS1)

Prepared: 27-Oct-22 Analyzed: 28-Oct-22

Benzene	1.98	0.025	mg/kg	2.00		98.9	70.2-121	1.23	9.42	
Toluene	2.00	0.025	mg/kg	2.00		100	76.9-126	2.61	10	
Ethylbenzene	1.94	0.025	mg/kg	2.00		97.0	79.1-124	0.591	10	
m+p - Xylene	4.11	0.050	mg/kg	4.00		103	80.8-134	1.08	9.6	
Total Xylenes	6.18	0.075	mg/kg	6.00		103	80.5-132	1.78	9.26	
o-Xylene	2.06	0.025	mg/kg	2.00		103	79-130	3.18	8.93	
Surrogate: Dibromofluoromethane	1.24		mg/kg	1.25		98.8	83.7-114			
Surrogate: Toluene-d8	1.26		mg/kg	1.25		101	95.3-107			
Surrogate: 4-Bromofluorobenzene	1.20		mg/kg	1.25		95.8	50.9-150			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
02-Nov-22 14:45

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amerdev</u>		P.O. #: <u>20220826-0245-water</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Andrew Parker</u>		Company: <u>Amerdev</u>					
Address: <u>On-File</u>		Attn: <u>aparker@amerdev.com</u>					
City: _____ State: _____ Zip: _____		Address: _____					
Phone #: _____ Fax #: _____		City: _____					
Project #: _____ Project Owner: _____		State: _____ Zip: _____					
Project Name: <u>20220826-0245-water</u>		Phone #: _____					
Project Location: <u>Sunoco Booster</u>		Fax #: _____					
Sampler Name: <u>Jesus Palomares</u>							
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	
				GROUNDWATER			
				WASTEWATER			
				SOIL			
				OIL			
				SLUDGE			
				OTHER :			
				ACID/BASE:			
				ICE / COOL			
				OTHER :			
				DATE	TIME		
<u>#225018</u>	<u>GS-01</u>	<u>2ft</u>	<u>9</u>	<u>10-25-22</u>	<u>8:34</u>	<u>Chloride</u>	
	<u>GS-01S</u>	<u>0-2ft</u>	<u>1</u>		<u>8:52</u>	<u>TPH (GRO+DRO+MRO)</u>	
	<u>GS-02</u>	<u>2ft</u>			<u>9:02</u>	<u>BTEX (Benzene)</u>	
	<u>GS-02E</u>	<u>0-2ft</u>			<u>9:10</u>		
	<u>GS-03</u>	<u>2ft</u>			<u>9:15</u>		
	<u>GS-04</u>	<u>0.5-2ft</u>			<u>9:27</u>		
	<u>GS-04W</u>	<u>0-2ft</u>			<u>9:44</u>		
	<u>GS-05</u>	<u>2ft</u>			<u>9:51</u>		
	<u>GS-06</u>	<u>2ft</u>			<u>9:59</u>		

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Relinquished By: _____	Date: <u>10/25/22</u>	Received By: <u>Spedriguent</u>	Time: <u>1537</u>
Relinquished By: _____	Date: _____	Received By: _____	Time: _____

Delivered By: (Circle One)	Observed Temp. °C <u>8.0</u>	Sample Condition	CHECKED BY: _____
Sampler - UPS - Bus - Other:	Corrected Temp. °C <u>7.4</u>	<input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)
		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	

Turnaround Time: _____

Thermometer ID #113

Correction Factor -0.6°C

Standard ☒ Rush ☐

Bacteria (only) Sample Condition

Cool Intact ☐ Observed Temp. °C

Yes ☐ No ☐

Corrected Temp. °C

REMARKS:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amereder</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Andrew Parker</u>		P.O. #: <u>2022-0826-0245-water</u>			
Address: <u>On-File</u>		Company: <u>Amereder</u>			
City:	State:	Zip:	Attn: <u>aparker@amereder.com</u>		
Phone #:	Fax #:	Project Owner:	Address:		
Project #:		City:	State:	Zip:	
Project Name: <u>2022-0826-0245-water</u>		Phone #:			
Project Location: <u>Sunoco Booster</u>		Fax #:			
Sample Name: <u>Jesus Palomares</u>					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.
				GROUNDWATER	
				WASTEWATER	
				SOIL	
				OIL	
				SLUDGE	
				OTHER :	
				ACID/BASE:	
				ICE / COOL	
				OTHER :	
				DATE	TIME
<u>H25018</u>					
11	G5-07	2ft	1	10:25:22	10:05
12	G5-08	2ft	1	10:12	10:12
13	G5-12	2ft	1	10:22	10:22
14	G5-13	2ft	1	10:30	10:30
15	G5-18	4.25ft	1	10:41	10:41
16	G5-19	4.25ft	1	10:50	10:50
17	G5-19 WE	0-2ft	1	11:01	11:01
18	G5-19 WE	2-4ft	1	11:06	11:06
19	G5-19 WE	4.25ft	1	11:10	11:10
20	G5-20	4.25ft	1	11:17	11:17
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Relinquished By: <u>[Signature]</u>	Date: <u>10-25-22</u>	Received By: <u>[Signature]</u>	Date: <u>10-25-22</u>	Time: <u>1537</u>	Time: <u>1537</u>
Delivered By: (Circle One)	Observed Temp. °C: <u>8.0°C</u>	Sample Condition	CHECKED BY: <u>[Signature]</u>	Turnaround Time:	Standard <u>Rush</u>
Sampler - UPS - Bins - Other:	Corrected Temp. °C: <u>7.4°C</u>	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		Thermometer ID #113	Bacteria (only) <input checked="" type="checkbox"/>
		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		Correction Factor -0.6°C	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>
		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>			No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>			Corrected Temp. °C

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amerdev</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Andrew Parker</u>		P.O. #: <u>2022 0826-0245-water</u>			
Address: <u>On-File</u>		Company: <u>Amerdev</u>			
City: _____		Attn: <u>aparker@amerdev.com</u>			
State: _____		Address: _____			
Phone #: _____		City: _____			
Fax #: _____		State: _____			
Project #: _____		Zip: _____			
Project Name: <u>20220826-0245-water</u>		Phone #: _____			
Project Location: <u>Sunoco Booster</u>		Fax #: _____			
Sampler Name: <u>Jesus Palomares</u>					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.
				GROUNDWATER	
				WASTEWATER	
				SOIL	
				OIL	
				SLUDGE	
				OTHER :	
				ACID/BASE:	
				ICE / COOL	
				OTHER :	
				DATE	TIME
<u>H25018</u>					
21	GS-20W	0-2ft	1	10-25-22	11:22
20	GS-20W	2-4ft	1	11:28	
23	GS-20W	4.25ft	1	11:31	
24	GS-21	4.25ft	1	11:35	
25	GS-22	4.25ft	1	11:40	
26	GS-22E	0-2ft	1	11:47	
27	GS-22E	2-4ft	1	11:51	
28	GS-22E	4.25ft	1	11:54	
29	GS-23	4.25ft	1	12:02	
30	GS-24	4.25ft	1	12:11	
<p>PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>					
Relinquished By: _____	Date: <u>10-25-22</u>	Received By: _____			
Relinquished By: _____	Time: <u>1537</u>	Received By: _____			
Date: _____	Time: _____	Received By: _____			
Delivered By: (Circle One)	Observed Temp. °C: <u>8.0°C</u>	Sample Condition	CHECKED BY: _____		
Sampler - UPS - Bus - Other:	Corrected Temp. °C: <u>7.4°C</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials)		
		Thermometer ID #113	Turnaround Time:		
		Correction Factor -0.6°C	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		
			Bacteria (only) Sample Condition		
			Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		
			Observed Temp. °C		
			Corrected Temp. °C		

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ANALYSIS REQUEST

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

November 09, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: SUNOCO BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 10/26/22 16:26.

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/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
09-Nov-22 11:14

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
-----------	---------------	--------	--------------	---------------

SUNOCO BACKFILL 01	H225056-01	Soil	26-Oct-22 15:10	26-Oct-22 16:26
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11/09/22 - Client requested a rerun of the TPH. This is the revised report and will replace the one sent on 11/02/22.

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "C. Keene", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
09-Nov-22 11:14

SUNOCO BACKFILL 01
H225056-01 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	2103101	AC	31-Oct-22	4500-Cl-B	
----------	-------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	2102816	JH	02-Nov-22	8021B	
Toluene*	<0.050		0.050	mg/kg	50	2102816	JH	02-Nov-22	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	2102816	JH	02-Nov-22	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	2102816	JH	02-Nov-22	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	2102816	JH	02-Nov-22	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 88.2 % 69.9-140 2102816 JH 02-Nov-22 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	2102749	MS	02-Nov-22	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	2102749	MS	02-Nov-22	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	2102749	MS	02-Nov-22	8015B	

Surrogate: 1-Chlorooctane 79.4 % 45.3-161 2102749 MS 02-Nov-22 8015B

Surrogate: 1-Chlorooctadecane 90.0 % 46.3-178 2102749 MS 02-Nov-22 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
09-Nov-22 11:14

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2103101 - 1:4 DI Water									
Blank (2103101-BLK1)				Prepared & Analyzed: 31-Oct-22					
Chloride	ND	16.0	mg/kg						
LCS (2103101-BS1)				Prepared & Analyzed: 31-Oct-22					
Chloride	416	16.0	mg/kg	400		104	80-120		
LCS Dup (2103101-BSD1)				Prepared & Analyzed: 31-Oct-22					
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
09-Nov-22 11:14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102816 - Volatiles**Blank (2102816-BLK1)**

Prepared: 28-Oct-22 Analyzed: 02-Nov-22

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		85.2	69.9-140			

LCS (2102816-BS1)

Prepared: 28-Oct-22 Analyzed: 02-Nov-22

Benzene	1.86	0.050	mg/kg	2.00		92.9	83.4-122			
Toluene	2.08	0.050	mg/kg	2.00		104	84.2-126			
Ethylbenzene	2.06	0.050	mg/kg	2.00		103	84.2-121			
m,p-Xylene	4.26	0.100	mg/kg	4.00		106	89.9-126			
o-Xylene	2.01	0.050	mg/kg	2.00		100	84.3-123			
Total Xylenes	6.26	0.150	mg/kg	6.00		104	89.1-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0425		mg/kg	0.0500		85.1	69.9-140			

LCS Dup (2102816-BSD1)

Prepared: 28-Oct-22 Analyzed: 02-Nov-22

Benzene	1.80	0.050	mg/kg	2.00		90.0	83.4-122	3.21	12.6	
Toluene	2.01	0.050	mg/kg	2.00		101	84.2-126	3.24	13.3	
Ethylbenzene	1.99	0.050	mg/kg	2.00		99.5	84.2-121	3.58	13.9	
m,p-Xylene	4.11	0.100	mg/kg	4.00		103	89.9-126	3.43	13.6	
o-Xylene	1.94	0.050	mg/kg	2.00		97.1	84.3-123	3.31	14.1	
Total Xylenes	6.05	0.150	mg/kg	6.00		101	89.1-124	3.40	13.4	
Surrogate: 4-Bromofluorobenzene (PID)	0.0427		mg/kg	0.0500		85.4	69.9-140			

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Analytical Results For:

AMEREDEV
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746

Project: SUNOCO BOOSTER
Project Number: 20220826-0245-WATER
Project Manager: ANDREW PARKER
Fax To:

Reported:
09-Nov-22 11:14

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2102749 - General Prep - Organics**Blank (2102749-BLK1)**

Prepared: 27-Oct-22 Analyzed: 31-Oct-22

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0		113	45.3-161			
Surrogate: 1-Chlorooctadecane	66.6		mg/kg	50.0		133	46.3-178			

LCS (2102749-BS1)

Prepared: 27-Oct-22 Analyzed: 31-Oct-22

GRO C6-C10	167	10.0	mg/kg	200		83.6	76.8-124			
DRO >C10-C28	175	10.0	mg/kg	200		87.4	74.9-127			
Total TPH C6-C28	342	10.0	mg/kg	400		85.5	77.5-124			
Surrogate: 1-Chlorooctane	60.8		mg/kg	50.0		122	45.3-161			
Surrogate: 1-Chlorooctadecane	70.7		mg/kg	50.0		141	46.3-178			

LCS Dup (2102749-BSD1)

Prepared: 27-Oct-22 Analyzed: 31-Oct-22

GRO C6-C10	166	10.0	mg/kg	200		82.8	76.8-124	0.952	17.2	
DRO >C10-C28	176	10.0	mg/kg	200		87.8	74.9-127	0.439	18.6	
Total TPH C6-C28	341	10.0	mg/kg	400		85.3	77.5-124	0.239	17.6	
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0		106	45.3-161			
Surrogate: 1-Chlorooctadecane	63.5		mg/kg	50.0		127	46.3-178			

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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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

November 08, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: SUNOCO BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 11/07/22 15:27.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	SUNOCO BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	20220826-0245-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: GS - 08 W 0-2FT (H225247-01)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2022	ND	1.93	96.7	2.00	5.68		
Toluene*	<0.050	0.050	11/08/2022	ND	1.97	98.5	2.00	5.41		
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	1.94	97.1	2.00	4.44		
Total Xylenes*	<0.150	0.150	11/08/2022	ND	5.97	99.5	6.00	4.00		
Total BTEX	<0.300	0.300	11/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	11/08/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	188	94.2	200	9.84	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	188	94.0	200	7.55	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 121 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received: 11/07/2022
 Reported: 11/08/2022
 Project Name: SUNOCO BOOSTER
 Project Number: 20220826-0245-WATER
 Project Location: NOT GIVEN

Sampling Date: 11/07/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: GS - 14 2FT (H225247-02)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2022	ND	1.93	96.7	2.00	5.68	
Toluene*	<0.050	0.050	11/08/2022	ND	1.97	98.5	2.00	5.41	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	1.94	97.1	2.00	4.44	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	5.97	99.5	6.00	4.00	
Total BTX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	11/08/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	188	94.2	200	9.84	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	188	94.0	200	7.55	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 110 % 46.3-178

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	11/07/2022	Sampling Date:	11/07/2022
Reported:	11/08/2022	Sampling Type:	Soil
Project Name:	SUNOCO BOOSTER	Sampling Condition:	** (See Notes)
Project Number:	20220826-0245-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: GS - 14 NW 0-2FT (H225247-03)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2022	ND	1.93	96.7	2.00	5.68		
Toluene*	<0.050	0.050	11/08/2022	ND	1.97	98.5	2.00	5.41		
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	1.94	97.1	2.00	4.44		
Total Xylenes*	<0.150	0.150	11/08/2022	ND	5.97	99.5	6.00	4.00		
Total BTX	<0.300	0.300	11/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/08/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	188	94.2	200	9.84	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	188	94.0	200	7.55	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 90.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received: 11/07/2022
 Reported: 11/08/2022
 Project Name: SUNOCO BOOSTER
 Project Number: 20220826-0245-WATER
 Project Location: NOT GIVEN

Sampling Date: 11/07/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: GS - 15 2FT (H225247-04)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2022	ND	1.93	96.7	2.00	5.68	
Toluene*	<0.050	0.050	11/08/2022	ND	1.97	98.5	2.00	5.41	
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	1.94	97.1	2.00	4.44	
Total Xylenes*	<0.150	0.150	11/08/2022	ND	5.97	99.5	6.00	4.00	
Total BTX	<0.300	0.300	11/08/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/08/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	188	94.2	200	9.84	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	188	94.0	200	7.55	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 97.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received: 11/07/2022
 Reported: 11/08/2022
 Project Name: SUNOCO BOOSTER
 Project Number: 20220826-0245-WATER
 Project Location: NOT GIVEN

Sampling Date: 11/07/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Shalyn Rodriguez

Sample ID: GS - 15 E 0-2FT (H225247-05)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/08/2022	ND	1.93	96.7	2.00	5.68		
Toluene*	<0.050	0.050	11/08/2022	ND	1.97	98.5	2.00	5.41		
Ethylbenzene*	<0.050	0.050	11/08/2022	ND	1.94	97.1	2.00	4.44		
Total Xylenes*	<0.150	0.150	11/08/2022	ND	5.97	99.5	6.00	4.00		
Total BTEX	<0.300	0.300	11/08/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/08/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2022	ND	188	94.2	200	9.84	
DRO >C10-C28*	<10.0	10.0	11/08/2022	ND	188	94.0	200	7.55	
EXT DRO >C28-C36	<10.0	10.0	11/08/2022	ND					

Surrogate: 1-Chlorooctane 92.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 105 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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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

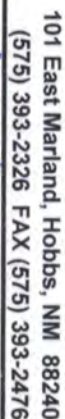
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Page 8 of 8

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

December 02, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: SUNOCO DIESEL BOOSTER

Enclosed are the results of analyses for samples received by the laboratory on 12/01/22 13:33.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 09 2FT (H225638-01)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEX	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

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	12/02/2022	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	12/01/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/01/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/01/2022	ND					

Surrogate: 1-Chlorooctane 98.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 09NW 0-2FT (H225638-02)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEX	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/02/2022	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	12/01/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/01/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/01/2022	ND					

Surrogate: 1-Chlorooctane 106 % 45.3-161

Surrogate: 1-Chlorooctadecane 109 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 10 2FT (H225638-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEx	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/02/2022	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	12/01/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/01/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/01/2022	ND					

Surrogate: 1-Chlorooctane 98.2 % 45.3-161

Surrogate: 1-Chlorooctadecane 101 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 10N 0-2FT (H225638-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEx	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-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	12/02/2022	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	12/01/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/01/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/01/2022	ND					

Surrogate: 1-Chlorooctane 97.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 98.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 10S 0-2FT (H225638-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEx	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-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	12/02/2022	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	12/01/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/01/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/01/2022	ND					

Surrogate: 1-Chlorooctane 99.3 % 45.3-161

Surrogate: 1-Chlorooctadecane 102 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 11 2FT (H225638-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEx	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/02/2022	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	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 87.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 85.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 11NE 0-2FT (H225638-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEx	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/02/2022	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	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 85.6 % 45.3-161

Surrogate: 1-Chlorooctadecane 84.2 % 46.3-178

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
ANDREW PARKER
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746
Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 16 4.5FT (H225638-08)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEX	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/02/2022	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	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.8 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 17.1 4.5FT (H225638-09)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEX	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1280	16.0	12/02/2022	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	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 87.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 86.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
ANDREW PARKER
2901 VIA FORTUNA , SUITE 600
AUSTIN TX, 78746
Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 17.1NW 0-2FT (H225638-10)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEx	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

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	12/02/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 88.4 % 45.3-161

Surrogate: 1-Chlorooctadecane 87.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 17.1NW 2-4FT (H225638-11)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEX	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/02/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 84.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 83.9 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 17.1NW 4.5FT (H225638-12)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEx	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/02/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 91.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 90.7 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 17.1E 0-2FT (H225638-13)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEx	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7730	16.0	12/02/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 91.1 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.1 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 17.1E 2-4FT (H225638-14)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEx	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	12/02/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 92.8 % 45.3-161

Surrogate: 1-Chlorooctadecane 93.5 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/01/2022	Sampling Date:	12/01/2022
Reported:	12/02/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: GS - 17.1E 4.5FT (H225638-15)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/01/2022	ND	1.82	91.2	2.00	12.7		
Toluene*	<0.050	0.050	12/01/2022	ND	2.02	101	2.00	13.5		
Ethylbenzene*	<0.050	0.050	12/01/2022	ND	2.09	105	2.00	14.2		
Total Xylenes*	<0.150	0.150	12/01/2022	ND	6.49	108	6.00	14.7		
Total BTEX	<0.300	0.300	12/01/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 69.9-140

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	12/02/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/02/2022	ND	221	110	200	2.09	
DRO >C10-C28*	<10.0	10.0	12/02/2022	ND	231	116	200	4.60	
EXT DRO >C28-C36	<10.0	10.0	12/02/2022	ND					

Surrogate: 1-Chlorooctane 89.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 88.0 % 46.3-178

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Amerceder Project Manager: Andrew Parker Address: On-File City: State: Zip: Phone #: Fax #: Project #: Project Name: 20220826-0245-water Project Location: Sunco Diesel Booster Sampler Name: Texas Palomares				P.O. #: 20220826-0245-water Company: Amerceder Attn: aparker@amerceder.com Address: City: State: Zip: Phone #: Fax #:				BILL TO				ANALYSIS REQUEST					
Lab I.D. 1935038		Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV.		SAMPLING		DATE TIME				Chloride TPH (GRO+DRO+MRO) BTEX (Benzene)			
GS-09 2ft		GS-09 NW 0-2ft		✓		✓		12-01		9:27		✓		✓			
GS-10 2ft		GS-10 NW 0-2ft		✓		✓		12-01		9:39		✓		✓			
GS-10 2ft		GS-10 NW 0-2ft		✓		✓		12-01		9:46		✓		✓			
GS-10 2ft		GS-10 NW 0-2ft		✓		✓		12-01		9:51		✓		✓			
GS-10 2ft		GS-10 NW 0-2ft		✓		✓		12-01		9:59		✓		✓			
GS-11 2ft		GS-11 NE 0-2ft		✓		✓		12-01		10:04		✓		✓			
GS-16 4.5ft		GS-16 4.5ft		✓		✓		12-01		10:21		✓		✓			
GS-17.1 4.5ft		GS-17.1 4.5ft		✓		✓		12-01		10:29		✓		✓			
GS-17.1 NW 0-2ft		GS-17.1 NW 0-2ft		✓		✓		12-01		10:43		✓		✓			

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Relinquished By: [Signature] Date: 12-1-22 Time: 1:33 Received By: [Signature] Date: 12-1-22 Time: 1:33		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS: Give Verbal to Andrews Cooler Temp 13.4°C	
Delivered By: (Circle One) UPS <input checked="" type="checkbox"/> Bus <input type="checkbox"/> Other <input type="checkbox"/> Observed Temp. °C: 5.5 Corrected Temp. °C: 4.9		Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CHECKED BY: [Signature] Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #13: 24hr Correction Factor -0.5°C:	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Amerex</u>		P.O. #: <u>20220826-0245-water</u>		ANALYSIS REQUEST	
Project Manager: <u>Andrew Parker</u>		Company: <u>Amerex</u>			
Address: <u>On-File</u>		Attn: <u>aparker@amerex.com</u>			
City:	State:	Zip:			
Phone #:	Fax #:				
Project #:	Project Owner:	City:	State:	Zip:	
Project Name: <u>20220826-0245-water</u>		Phone #:			
Project Location: <u>Sunco Diesel Bowler</u>		Fax #:			
Sampler Name: <u>Jesus Palomares</u>					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		DATE	TIME	ANALYSIS	REMARKS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL				
4935038	GS-17.1NW	24ft	9									12-01	10:53	✓	Chloride
12	GS-17.1NW	4.5ft	1									11:08	11:08	✓	TPH (GRO + DRO + MRO)
13	GS-17.1E	0-2ft	1									11:24	11:24	✓	BTEX (Benzene)
14	GS-17.1E	2-4ft	1									11:42	11:42	✓	
15	GS-17.1E	4.5ft	1									11:57	11:57	✓	

Relinquished By: <u>[Signature]</u>		Date: <u>12-1-22</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Relinquished By: <u>[Signature]</u>		Date: <u>12-1-22</u>	Received By: <u>[Signature]</u>	All Results are emailed. Please provide Email address:
REMARKS: <u>Cooler Temp Blanks 4.4°C</u>				

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	<u>AP</u>		<u>34hr</u>	<input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C
		No <input type="checkbox"/> Intact <input type="checkbox"/>				<input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C

FOR USE ONLY

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

December 15, 2022

ANDREW PARKER

AMEREDEV

2901 VIA FORTUNA , SUITE 600

AUSTIN, TX 78746

RE: SUNOCO DIESEL BOOSTER PUMP #2

Enclosed are the results of analyses for samples received by the laboratory on 12/12/22 14:59.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/12/2022	Sampling Date:	12/12/2022
Reported:	12/15/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER PUMP #2	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: GS - 38 N 0FT (H225846-01)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.23	112	2.00	1.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.23	112	2.00	1.41		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.453		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.66	111	6.00	0.413		
Total BTEX	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/13/2022	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	12/13/2022	ND	197	98.6	200	0.758	
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	204	102	200	0.639	
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND					

Surrogate: 1-Chlorooctane 62.0 % 45.3-161

Surrogate: 1-Chlorooctadecane 68.1 % 46.3-178

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

AMEREDEV
 ANDREW PARKER
 2901 VIA FORTUNA , SUITE 600
 AUSTIN TX, 78746
 Fax To:

Received:	12/12/2022	Sampling Date:	12/12/2022
Reported:	12/15/2022	Sampling Type:	Soil
Project Name:	SUNOCO DIESEL BOOSTER PUMP #2	Sampling Condition:	Cool & Intact
Project Number:	20220826-0245-WATER	Sample Received By:	Shalyn Rodriguez
Project Location:	NOT GIVEN		

Sample ID: GS - 39 S OFT (H225846-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/13/2022	ND	2.23	112	2.00	1.25		
Toluene*	<0.050	0.050	12/13/2022	ND	2.23	112	2.00	1.41		
Ethylbenzene*	<0.050	0.050	12/13/2022	ND	2.17	109	2.00	0.453		
Total Xylenes*	<0.150	0.150	12/13/2022	ND	6.66	111	6.00	0.413		
Total BTEX	<0.300	0.300	12/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/13/2022	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	12/13/2022	ND	197	98.6	200	0.758		
DRO >C10-C28*	<10.0	10.0	12/13/2022	ND	204	102	200	0.639		
EXT DRO >C28-C36	<10.0	10.0	12/13/2022	ND						

Surrogate: 1-Chlorooctane 67.5 % 45.3-161

Surrogate: 1-Chlorooctadecane 73.8 % 46.3-178

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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 170278

CONDITIONS

Operator: AMEREDEV OPERATING, LLC 2901 Via Fortuna Austin, TX 78746	OGRID: 372224
	Action Number: 170278
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Deferral Request Approved. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue. The OCD will not close a release, where contaminants are left in place, due to close proximity to equipment. The incident will only be closed after all contaminated soil has been remediated to meet OCD Spill Rule Standards.	1/23/2023