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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	nAPP2136338719
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

			OGRID 371643				
Contact Name Rob Kirk			Contact Telephone O 575- 300-5155 C 469-978-5620				
Contact email rob.kirk@ariswater.com				(assigned by OCD)			
Contact mai	ling address	3305 Boyd Dr	rive, Carlsbad	l, NM	88220		
			Location			ource	
Latitude 32.22496			Longitude -103.50678				
Latitude 32			(NAD 83 in de	ecimal de	egrees to 5 decimal places)		
Site Name G	ettveburg	Tinhorn			Site Type Tinhorn		
		12/28/2021			API# (if app		
		12/20/2021			(3 17		
Unit Letter	Section	Township	Range		Cou	nty]
0	7	24S	34E	Lea			
Surface Owne	r: State	Federal T	ribal Driveta	(Nama:			`
Surface Owne	a state	V rederar 11	iibai 🔲 i iivate ((ivame.			
			Nature an	d Vo	lume of 1	Release	
	Materia	al(s) Released (Select a	ll that apply and attac	h calculat	ions or specific	justification for the	e volumes provided below)
Crude Oi		Volume Release			•	Volume Recovered (bbls)	
✓ Produced	l Water	Volume Release	ed (bbls) 82			Volume Recovered (bbls) 0	
Is the concentration of dissolved chloride produced water >10,000 mg/l?		e in the	☑ Yes □ No				
Condensate Volume Released (bbls)			Volume Recovered (bbls)				
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)					
G CD	1						
Cause of Re		f a poly pipe to	n a carbon ste	eel fitt	ing create	ed a nin hole	e leak. The section was
		leak has stopp		iitt	g oroatt	Ja a piii iiok	Tio Goddon Wad

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Incident ID	nAPP2136338719
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Was this a major release as defined by 19.15.29.7(A) NMAC? ✓ Yes ☐ No	If YES, for what reason(s) does the respor 82 BBLs of Produced Water release		
· ·	otice given to the OCD? By whom? To wh NMOCD Web Portal, emails to H	om? When and by what means (phone, email, etc)? Hoobs and Artesia offices of OCD	
	Initial Re	esponse	
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 rele	ease has been stopped.		
☐ The impacted area ha	s been secured to protect human health and	the environment.	
☑ Released materials ha	ave been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.	
All free liquids and re	ecoverable materials have been removed and	I managed appropriately.	
		emediation immediately after discovery of a release. If remediation	
		efforts have been successfully completed or if the release occurred lease 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: Rob Kirk	ζ	Title: VP & GM, HSE & Compliance	
Signature:	Now	Date: 01/20/2023	
email: <u>rob.kirk@ar</u>	iswater.com	Telephone: O 575- 300-5155 C 469-978-5620	
OCD Only			
Received by:		Date:	

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Incident ID	nAPP2136338719
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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?	78 (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ☑ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?			
Are the lateral extents of the release within a 100-year floodplain?			
Did the release impact areas not on an exploration, development, production, or storage site?			
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 well Field data	ls.		
✓ 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.

Received by OCD: 6/8/2023 12:00:33 AM Form C-141 State of New Mexico
Page 4 Oil Conservation Division

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Incident ID	nAPP2136338719
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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: Rob Kirk

Title: VP & GM, HSE & Compliance

Date: 01/20/2023

Telephone: 0 575- 300-5155 C 469-978-5620

OCD Only

Received by: Date:

	Page 5 of 1	75
Incident ID	nAPP2136338719	
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: Rob Kirk Title: VP & GM, HSE & Compliance			
Signature:			
email: <u>rob.kirk@ariswater.com</u> Telephone: <u>O 575- 300-5155 C 469-978-562</u> 0			
OCD Only			
Received by: Date:			
Approved Approved with Attached Conditions of Approval Denied Deferral Approved			
Signature: Date:			

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Incident ID	nAPP2136338719
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Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.				
✓ A scaled site and sam	pling diagram as described in 19.15	5.29.11 NMAC		
Photographs of the remust be notified 2 days pr		notos of the liner integr	ity if applicable (Note: appropriate OCD District office	
✓ Laboratory analyses of the control of th	of final sampling (Note: appropriate	ODC District office m	ust be notified 2 days prior to final sampling)	
Description of remedi	ation activities			
may endanger public health should their operations hav human health or the environ compliance with any other restore, reclaim, and re-veg	or the environment. The acceptance failed to adequately investigate and nament. In addition, OCD acceptance federal, state, or local laws and/or reletate the impacted surface area to the	ce of a C-141 report by nd remediate contamina se of a C-141 report doo egulations. The respon he conditions that exist the OCD when reclama	ons and perform corrective actions for releases which the OCD does not relieve the operator of liability tion that pose a threat to groundwater, surface water, es not relieve the operator of responsibility for sible party acknowledges they must substantially ed prior to the release or their final land use in tion and re-vegetation are complete.	
Printed Name: Rob Kirk		Title: VP & C	GM, HSE & Compliance	
Signature:	X Now	Date: 01/20/2	023	
_{email:} rob.kirk@ariswa	ter.com	Telephone: O 5	75- 300-5155 C 469-978-5620	
OCD Only				
Received by:		Date:		
remediate contamination th		face water, human heal	their operations have failed to adequately investigate and th, or the environment nor does not relieve the responsible	
Closure Approved by:	Nelson Velez	Date: _	09/06/2023	
Closure Approved by:	Nelson Velez	Title: _	Environmental Specialist – Adv	

ierracon

Solaris Water Medistream LLC. Gettysburg Tinhorn

Unit: O Section: 07 Township: 24S Range: 34E

NMOCD Reference # nAPP2136338719

Terracon Project # AR227018



Attn: Mr. Rob Kirk P: (469) 978-5620

E: rob.kirk@ariswater.com

RE: Amended Closure Report

Gettysburg Tinhorn

Unit: O, Section 07, Township 24 South, Range 34 East

Lea County, New Mexico

Terracon Project No. AR227018

Dear Mr. Kirk,

Terracon Consultants, Inc. (Terracon) is pleased to submit our Amended Closure Report for the site referenced above. The Release Investigation and Closure Report were developed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations concerning clean-up actions required for releases of crude oil and produced water. Based on the release investigation assessment, Terracon completed the following actions to achieve the protection of fresh water and the environment in accordance with NMOCD regulations. Terracon developed the Release Investigation and Closure Report in general accordance with our scope of work (AR227018) dated April 20, 2022.

Action Items

Completed Actions

- 1) Initial site assessment and sampling events completed.
- 2) Vertical and Horizontal delineation of release was achieved.
- 3) All conditions needed for approval of closure have been met.
- 4) All Maps and associated data for approval have been provided
- 5) Conducted an initial site assessment and a series of sampling events.
- 6) Soil samples collected from the delineation were submitted to an approved Lab to determine levels of impact vertically and horizontally.
- 7) Excavation of the impacted area was completed with the intent to remove impacted soil as determined by the Closure Criteria set by NMOCD.
- 8) Exhumed soils were stockpiled on site and placed on plastic and bermed around the edges to reduce loss.
- 9) All confirmation samples were collected every 200 sq. ft.
- 10) Remedial activities were terminated when confirmation samples no longer exhibited concentrations of constituents of concern (COCs) above applicable NMOCD RALs for Oil and Gas impacted soils or a competent rock layer was encountered.
- 11) Following the completion of remedial activities all areas of the excavation activities have been

Solaris Water Midstream LLC Gettysburg Tinhorn

Unit: O Section: 07 Township: 24S Range: 34E

NMOCD Reference # nAPP2136338719



backfilled and brought to the surrounding grade and reseeded.

Anticipated Actions

1) Approval by the NMOCD.

Terracon appreciates this opportunity to provide environmental services to Solaris Water Midstream LLC (Solaris). Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,

Terracon Consultants, Inc.

Travis L. Casey

Senior Staff Scientist

Carlsbad - Office

Erin Loyd, P.G. (TX)

Principal

Office Manager - Lubbock

TABLE OF CONTENTS

Incident Information	2
General Site Characteristics	3
Regulatory Framework and Response Action Levels	4
Soil Investigation Discussion	5
Release Margins Data Evaluation	
Confirmation Sampling Data Evaluation	5
Release Investigation Data Summary	6

Attachments:

Appendix A – Exhibits

Exhibit 1 – Topo Map

Exhibit 2 – Site Map

Exhibit 3 – Initial Site Investigation Map

Exhibit 4 - Confirmation Soil Sampling Map

Exhibit 5 – NMOSE POD Location Map

Exhibit 6 - Cave Karst Public UCP Map

Appendix B – Tables, Procedures, and Figures

Table 1 – Closure Criteria for Soils Impacted by a Release

Table 2 – Soil Sample Analytical Results

Appendix C – Photographic Log

Appendix D - Analytical Report and Chain of Custody

Appendix E – Waste Manifest



Incident Information

The following table provides detailed information regarding the December 28, 2021, produced water release at the site in Lea County, New Mexico:

Required Information	Site and Release inform	ation						
Responsible party	The facility is operated by	The facility is operated by Solaris Water Midstream LLC						
Local contact	Contact: Mr. Rob Kirk	P: (469) 978-5620 E: rob.kirk@ariswater.com						
NMOCD Notification	•	Notice of the release was provided to the NMOCD web portal by Rob Kirk on December 29, 2021. Incident number nAPP2136338719 was assigned to the release.						
Time of incident	On December 28, 2021, th	On December 28, 2021, the time of discovery is undisclosed						
Discharge event		The cause of the leak was due to Corrosion at a Coupling and was discovered seeping to the surface and surrounding area along the pipeline right-of-way (ROW).						
Type of discharge		The documented fluids release occurred within already existing ROW and is affected at the surface to an undefined depth.						
Quantity of released material	Total Fluids: 82 bbls	Produced Water: 82 bbls Total Petroleum Hydrocarbons: None						
Immediate corrective actions	Replacement of the Corrosive Coupling from Tinhorn to Riser.							

Solaris Water Midstream LLC Gettysburg Tinhorn

Unit: O Section: 07 Township: 24S Range: 34E

NMOCD Reference # nAPP2136338719



General Site Characteristics								
Remedial Determining Information	Site Ranking Characteristics							
Facility Description Site Map – (Exhibit 2 in Appendix A)	Gettysburg Tinhorn is in Lea County, New Mexico. It is an area located within Unit O, Section 07, Township 24 South, Range 34 East, approximately 19.5 miles Northwest of Jal, New Mexico. The site is predominantly developed ROW.							
Site characteristics Topographic Map – (Exhibit 1 in Appendix A)	Relatively flat with drainage following the ROW surface; very gently sloping to the east.							
Groundwater NMOSE POD Location Map – (Exhibit 6 in Appendix A)	POD Number: (CP-03932-POD8) Depth to Groundwater: 78 ft. bgs Distance to Well: 0.37 miles to the northeast Date Drilled: May 18, 2016 Groundwater Quality: Groundwater quality at the site is predominately used for livestock production.							
Surface Water	Pecos River (South-eastern Eddy County, NM), approximately 27.5 miles to the west.							
Soil Characteristics	Soils at the site are mapped as Berino-Cacique series soils, 0 to 3 percent slopes, well-drained, 0 to 6 inches loamy fine sand, 6 to 60 inches sandy clay loam. This soil has a surface layer of loamy fine sand. Restrictive features are present at 80 inches bgs resulting in the formation being categorized with a low runoff classification.							
Karst Characterization Cave Karst Public UCP Map – (Exhibit 7 in Appendix A)	Terracon evaluated data from the NMOCD Public FTP Site, Karst map designations in reference to the site location. The site appears to be within a low-level Karst risk area. Based on on-site observations within the extent of the release margins the potential for Karst formations in this specific area are of low potential. A layer of solid competent rock was encountered from 11 to 21 inches bgs within the release margins. The full extent of release quantities and excavation activities did not extend greater than 60 inches bgs.							



Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). The NMOCD has issued the *Closure Criteria for Soils Impacted by a Release, June 21, 2018,* and *Restoration, Reclamation, and Re-vegetation (19.15.29.13) NMAC – D (Reclamation of areas no longer in use)* as guidance documents for the remediation and reclamation of sites impacted by releases from oil and gas exploration and production activities. Sections detailed below the applicability of these guidance documents to the site-specific characteristics associated with the Gettysburg Tinhorn.

Reclamation Levels (Surface to 4 ft. bgs)

The below Reclamation Limits for chlorides, TPH (GRO+DRO+MRO), BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene are defined within New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs.:

Constituent	Remediation Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Remediation Levels (> 4 ft. bgs)

Based on the depth-to-water information gathered from CP-03932-POD8 (78 ft bgs), the applicable NMOCD remediation levels for Total BTEX, chloride, and TPH within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

Constituent	Remediation Limit
Chloride	10,000 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



Soil Investigation Discussion

During Terracon's January 18, 2022, and August 11, 2022 release investigation activities, a total of 26 soil samples were collected from within the release margins and analyzed for BTEX, chloride, and/or TPH. A total of 60 confirmation soil samples were collected on August 28-31, 2022, and February 13-20, 2023.

Release Margins Data Evaluation

Reclamation Assessment Data Evaluation

A total of 26 soil samples were collected from within the release margins within the top 4 ft bgs. All 11 of the initial samples were analyzed for the presence of BTEX, chloride, and/or TPH. One of the 11 samples did exhibit concentrations of benzene constituents above applicable laboratory sample detection levels (SDLs) but below the applicable NMOCD remedial action levels (RALs), as summarized in Table 1.

Each of the 26 samples collected was analyzed for the presence of chloride. The detected chloride concentrations ranged from non-detect in soil sample HA-3 (4.5 ft bgs to 5 ft bgs) to 5,930 mg/kg in soil sample HA-2 (0 ft bgs to 0.5 ft bgs), as summarized in Table 1.

Based on the review of the analytical results of the delineation soil samples, the detected constituent concentrations did exceed NMOCD RALs based on the criteria ranking parameters and applicability by depth. Based on this comparison, NMOCD Action Levels will continue to be utilized as the applicable RALs for the site.

Confirmation Sampling Data Evaluation

Remediation Assessment Data Evaluation

A total of 60 composite confirmation soil samples were collected throughout the excavated extent of the release and were analyzed for the presence of BTEX, Benzene, and/or TPH. Analyzed samples did not exhibit concentrations of BTEX, Benzene, or TPH constituents above applicable laboratory SDLs, as summarized in Table 1.

Chloride was detected above applicable laboratory SDLs in 59 of the 60 composite confirmation soil samples analyzed within the excavation extent. The chloride concentrations ranged from 6.13 mg/kg in soil sample S-SW04 (surface to 4 ft bgs) to 9,460 mg/kg in soil sample FS02 (5 ft bgs to 6 ft bgs). Of the 60 soil samples analyzed, the 20 wall soil samples exhibited chloride concentrations below the applicable NMOCD RALs of 600 mg/kg, with the exception being three wall samples that were further remediated and subsequently exhibited concentrations below the NMOCD RALs. The 40 floor confirmation samples exhibited chloride concentrations below the applicable NMOCD RALs of 10,000 mg/kg as summarized in Table 1.



Investigation and Remediation Data Summary

Based on the review of the above release investigation analytical results, the presence of petroleum hydrocarbon constituents (BTEX/TPH) was not detected at concentrations above applicable NMOCD Reclamation and/or Remediation Action Limits.

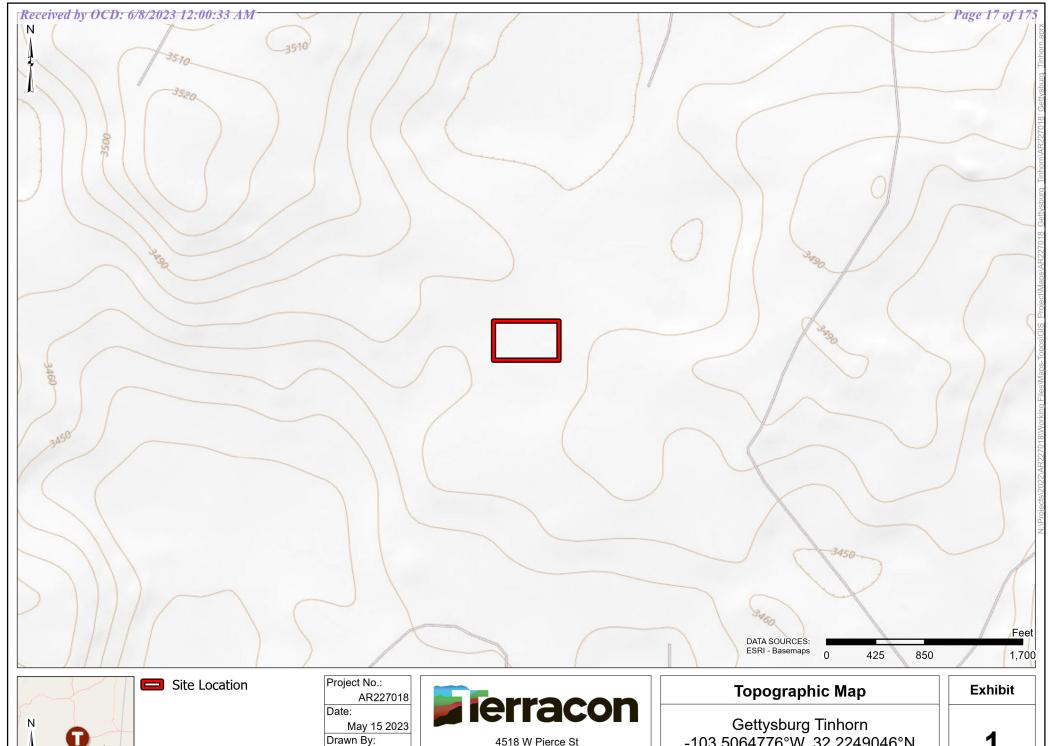
Of the 60 soil samples analyzed, 19 soil samples exhibited chloride concentrations above the applicable NMOCD Reclamation Action Limit of 600 mg/kg for soil samples collected within the soils from surface to 4 ft bgs. None of the soil samples collected at depths greater than 4 ft bgs exhibited chlorides that exceeded the NMOCD Remediation Action Limit of 10,000 mg/kg.

It is anticipated that released produced water-associated chlorides consolidated upon the cemented layer of the Lea Formation at 70 to 80 inches bgs. Based on the proximity of the analyzed samples to this restrictive layer and the magnitude of the concentrations being elevated above 600 mg/kg but below 10,000 mg/kg, it is not anticipated that further remedial actions are needed.



	Soil Management Plan
Soil Objectives	Approach Actions
General Soil Plan	The best approach for this site was determined to be to excavate all impacted materials and dispose of impacted materials at an approved oil and gas waste facility.
Reclamation Response Objectives	The objective of reclamation activities at this site was to remove all impacted materials from the surface to 4 ft. below grade surface (bgs) that had chloride concentrations above 600 mg/kg.
Remediation Response Objectives	The objective of remediation activities at this site was to ensure that all soils at depths below 4 ft. bgs. were at a chloride concentration below 10,000 mg/kg.
Soil Management	All impacted soils that were excavated were placed on a 20-mil poly liner. The excavated stockpiles had soils bermed around the edges to reduce unintended impacts on native soils.
Depth of Remediation Confirmation Soil Map - (Figure 3 in Appendix A)	The depths of remedial activities at the site were determined by titrating confirmation samples during excavation activities. The sections of the excavation from FS01 through FS05 were completed at 6 ft. bgs., while sections FS06 through FS30 were terminated at 5 ft. bgs.
Disposal Facility Waste Manifest – (Appendix E)	All impacted soils were taken to R360 Halfway.
Quantity Disposed Waste Manifest – (Appendix E)	A total of 3,640 cubic yards was excavated and disposed of at the R360 Halfway disposal facility.

APPENDIX A - EXHIBITS



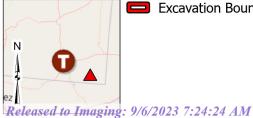
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JWL

Reviewed By: JRG 4518 W Pierce St Carlsbad, NM

PH. 806-300-0140 terracon.com Gettysburg Tinhorn -103.5064776°W, 32.2249046°N Lea County, New Mexico





AR227018

Date:

May 15 2023

Drawn By: JWL

Reviewed By: **JRG**



4518 W Pierce St Carlsbad, NM

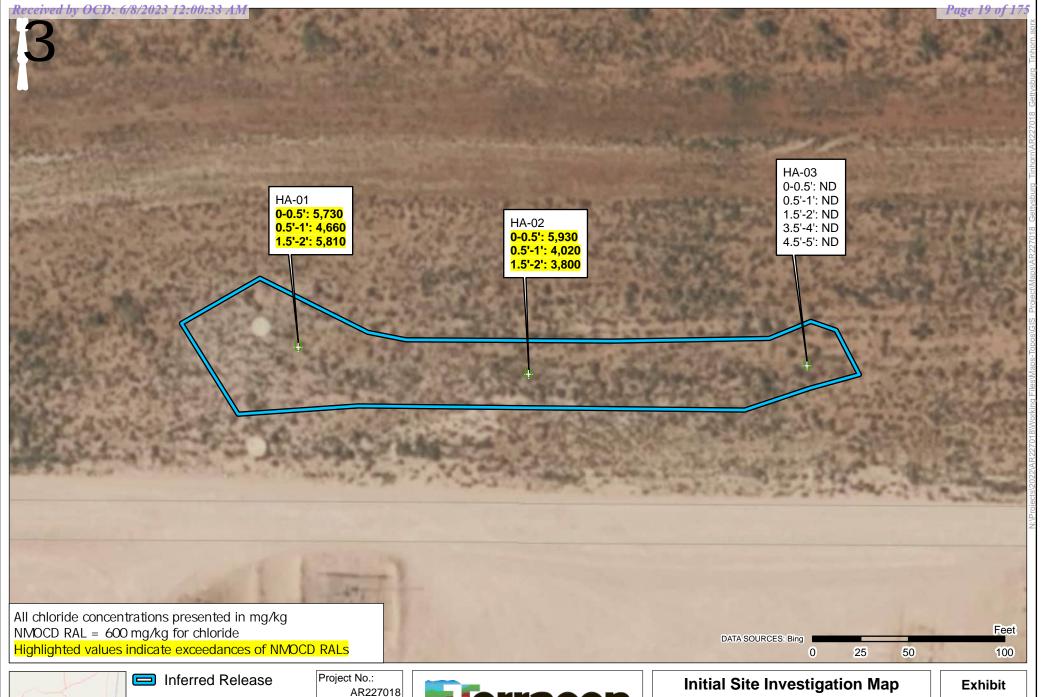
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terracon.com

Site Map

Gettysburg Tinhorn -103.5064776°W, 32.2249046°N Lea County, New Mexico

Exhibit





Sample Location U

May 15 2023 Drawn By: JWL Reviewed By: **JRG**

Date:

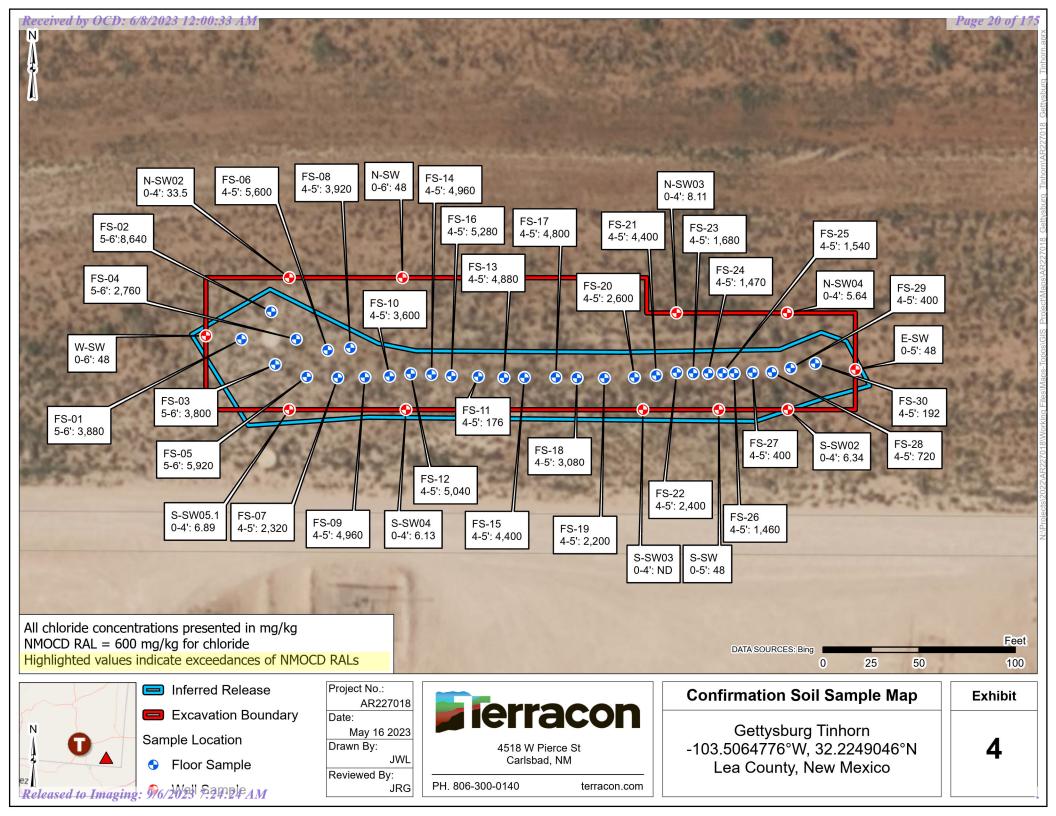


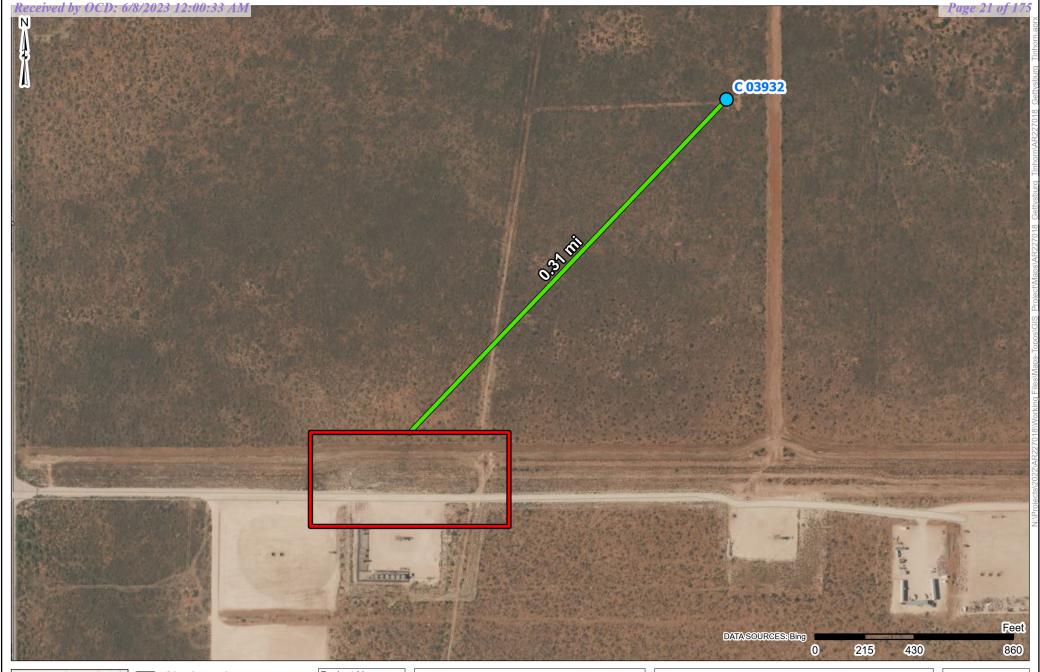
4518 W Pierce St Carlsbad, NM

PH. 806-300-0140 terracon.com

Initial Site Investigation Map

Gettysburg Tinhorn -103.5064776°W, 32.2249046°N Lea County, New Mexico







Site Location

NMOSE PODS Location Date:

Project No.: AR227018

May 15 2023 Drawn By:

JWL Reviewed By:

JRG



4518 W Pierce St Carlsbad, NM

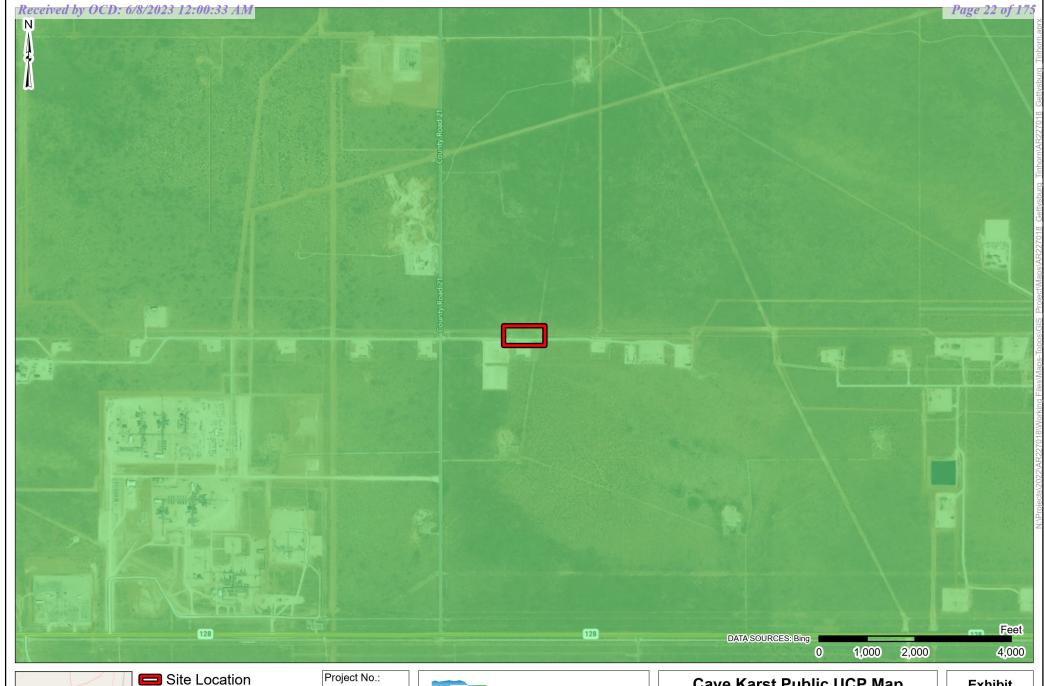
PH. 806-300-0140 terracon.com

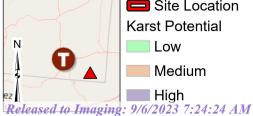
NMOSE POD Location Map

Gettysburg Tinhorn -103.5064776°W, 32.2249046°N Lea County, New Mexico

Exhibit

5





AR227018

Date:

May 15 2023

Drawn By:

JWL Reviewed By: **JRG**



4518 W Pierce St Carlsbad, NM

PH. 806-300-0140 terracon.com

Cave Karst Public UCP Map

Gettysburg Tinhorn -103.5064776°W, 32.2249046°N Lea County, New Mexico

Exhibit

6

APPENDIX B – TABLES, PROCEDURES, AND FIGURES

Table 1								
Closure Criteria for Soils Impacted by a Release								
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/L TDS	Constituent	Method*	Limit**					
	Chloride***	EPA 300.0 or SM4500 CI B	600 mg/kg					
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	100 mg/kg					
<50 feet	втех	EPA SW-846 Method 8021B or 8260B	50 mg/kg					
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg					
	Chloride***	EPA 300.0 or SM4500 CI B	10,000 mg/kg					
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	2,500 mg/kg					
51 feet – 100 feet	GRO+DRO	EPA SW-846 Method 8015 M	1,000 mg/kg					
31 leet – 100 leet	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg					
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg					
	Chloride***	EPA 300.0 or SM4500 CI B	20,000 mg/kg					
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	2,500 mg/kg					
100 foot	TPH (GRO+DRO)	EPA SW-846 Method 8015 M	1,000 mg/kg					
>100 feet	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg					
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg					

^{*}Or other methods approved by the division

^{**}Numerical limits or natural background level, whichever is greater

^{***}This applies to releases of produced water or other fluids, which may contain chloride

			SOIL SA		TABLE 2 CAL RESULTS - BTEX ¹ , Chloride ² , and TI Gettysburg Tinhorn on Project No. AR227018	PH ³				
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Soil Status	Sample Date	BTEX	Chloride (mg/kg)		(mg	8015M) g/kg)	
	(1.1. 290)			Pa	(mg/kg) lease Margin Samples	(9.1.9)	GRO	DRO	MRO	TOTAL
	0 - 0.5	Grab	Ex-Situ	01/18/22	Benzene - ND	5,730	ND	ND	ND	ND
	0 - 0.5	Giab	Exioliu	01/10/22	Total BTEX - ND	5,730	ND	ND	IND	IND
HA-1	0.5 - 1	Grab	Ex-Situ	01/18/22	Benzene - ND Total BTEX - ND	4,660	ND	ND	ND	ND
	1.5 - 2	Grab	Ex-Situ	01/18/22	Benzene - ND Total BTEX - ND	5,810	ND	ND	ND	ND
	0 - 0.5	Grab	Ex-Situ	01/18/22	Benzene - ND Total BTEX - ND	5,930	ND	ND	ND	ND
HA-2	0.5 - 1	Grab	Ex-Situ	01/18/22	Benzene - ND Total BTEX - ND	4,020	ND	ND	ND	ND
	1.5 - 2	Grab	Ex-Situ	01/18/22	Benzene - 0.00129 Total BTEX - ND	3,800	ND	ND	ND	ND
	0 - 0.5	Grab	Ex-Situ	01/18/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
	0.5 - 1	Grab	Ex-Situ	01/18/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
HA-3	1.5 - 2	Grab	Ex-Situ	01/18/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
	3.5 - 4	Grab	Ex-Situ	01/18/22	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
	4.5 - 5	Grab	Ex-Situ	01/18/22	Benzene - ND Total Xylenes - ND	ND	ND	ND	ND	ND
				Addition	al Release Margin Sampling					
	0 - 0.5	Grab	Ex-Situ	08/11/22	Benzene - NA Total BTEX - NA	1840	NA	NA	NA	NA
	0.5 - 1	Grab	Ex-Situ	08/11/22	Benzene - NA Total BTEX - NA	436	NA	NA	NA	NA
BH-1	1 - 2	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	3810	NA	NA	NA	NA
	3.5 - 4	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	1960	NA	NA	NA	NA
	4.5 - 5	Grab	In-Situ	08/11/23	Benzene - NA Total BTEX - NA	112	NA	NA	NA	NA
	0 - 0.5	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	82.9	NA	NA	NA	NA
	0.5 - 1	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	1430	NA	NA	NA	NA
BH-2	1 - 2	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	4810	NA	NA	NA	NA
	3.5 - 4	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	5550	NA	NA	NA	NA
	4.5 - 5	Grab	In-Situ	08/11/23	Benzene - NA Total BTEX - NA	3770	NA	NA	NA	NA
	0 - 0.5	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	949	NA	NA	NA	NA
	0.5 - 1	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	3760	NA	NA	NA	NA
BH-3	1.5 - 2	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	4640	NA	NA	NA	NA
	3.5 - 4	Grab	Ex-Situ	08/11/23	Benzene - NA Total BTEX - NA	2170	NA	NA	NA	NA
	4.5 - 5	Grab	In-Situ	08/11/23	Benzene - NA Total Xylenes - NA	152	NA	NA	NA	NA
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)					Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600		N/A		100
	NMOCD Remediation and Delineation Standards ⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	10,000		N/A		25,000

^{1.} BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B
2. Chloride = Chloride analyzed by EPA Method 300.
3. TPH = Total petroleum hydrocathons analyzed by EPA Method 8015M (GROIDROIMRO)
4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) — D (Reclamation of areas no longer in use) for soils extending to 4 ft. Ups

^{5.} New Mexico Oil Conservation Division (NIMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NIMAC - N, 8/14/2018
< = Constituent not detected above the indicated laboratory SDL
ND = Non Detect

			SOIL SA		TABLE 2 CAL RESULTS - BTEX ¹ , Chloride ² , and Gettysburg Tinhorn on Project No. AR227018	TPH ³				
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Soil Status	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
	(5-)			C	1 2 2	(53)	GRO	DRO	MRO	TOTAL
FS01	5-6'	Composite	In-Situ	08/28/22	irmation Floor Samples Benzene - ND Total BTEX - ND	8,530	ND	ND	ND	ND
FS02	5-6'	Composite	In-Situ	08/28/22	Benzene - ND Total BTEX - ND	9,460	ND	ND	ND	ND
FS03	5-6'	Composite	In-Situ	08/28/22	Benzene - ND Total BTEX - ND	496	ND	ND	ND	ND
FS04	5-6'	Composite	In-Situ	08/28/22	Benzene - ND Total BTEX - ND	320	ND	ND	ND	ND
E-FS01	5-6'	Composite	In-Situ	08/28/22	Benzene - ND Total BTEX - ND	5,680	ND	ND	ND	ND
E-FS02	4-5'	Composite	In-Situ	08/28/22	Benzene - ND Total BTEX - ND	3,520	ND	ND	ND	ND
E-FS03	4-5'	Composite	In-Situ	08/28/22	Benzene - ND Total BTEX - ND	3,200	ND	ND	ND	ND
E-FS04	4-5'	Composite	In-Situ	08/28/22	Benzene - ND Total BTEX - ND	2,680	ND	ND	ND	ND
E-FS05	4-5'	Composite	In-Situ	08/28/22	Benzene - ND	2,880	ND	ND	ND	ND
E-FS06	4-5'	Composite	In-Situ	08/28/22	Total BTEX - ND Benzene - ND	752	ND	ND	ND	ND
FS01	5-6'	Composite	In-Situ	08/31/22	Total BTEX - ND Benzene - NA	3,880	NA	NA	NA	NA
FS02	5-6'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	8.640	NA.	NA NA	NA NA	NA NA
FS03	5-6'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	3,800	NA.	NA NA	NA NA	NA NA
					Total BTEX - NA Benzene - NA					
FS04	5-6'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	2,760	NA	NA	NA	NA
FS05	5-6'	Composite	In-Situ	08/31/22	Total BTEX - NA	5,920	NA	NA	NA	NA
FS06	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	5,600	NA	NA	NA	NA
FS07	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	2,320	NA	NA	NA	NA
FS08	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	3,920	NA	NA	NA	NA
FS09	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	4,960	NA	NA	NA	NA
FS10	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	3,600	NA	NA	NA	NA
FS11	4-5'	Composite	In-Situ	08/31/22	Benzene - NA	176	NA	NA	NA	NA
FS12	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	5,040	NA	NA	NA	NA
FS13	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	4,880	NA	NA	NA	NA
FS14	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	4,960	NA	NA	NA	NA
FS15	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	4,400	NA	NA NA	NA NA	NA.
		Dompoone	0	0001122	Total BTEX - NA Benzene - 10	1,100				
NMOCD Reclamation Standards ⁴			Toluene - N/A							
(Applica		the Surface to 4 f		Surface)	Ethylbenzene - N/A Total Xylenes - N/A	600		N/A		100
					Total BTEX - 50					
					Benzene - 10 Toluene - N/A					
	(Applic	ation and Delinea able for Soils at D	epths		Ethylbenzene - N/A	10,000		N/A		25,000
	Greater tha	n 4 ft. Below Grad	e Surface)		Total Xylenes - N/A Total BTEX - 50					

Constituent not detected above the indicated laboratory SDL
 ND = Non Detect
 N/A = Not Applicable
 Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

Total BTEX - 50

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

^{5.} New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

			SOIL SA		TABLE 2 CAL RESULTS - BTEX ¹ , Chloride ² , and ¹ Gettysburg Tinhorn con Project No. AR227018	TPH ³				
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Soil Status	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)		TPH (8015M) (mg/kg)		
	,			Cont	irmation Floor Samples		GRO	DRO	MRO	TOTAL
FS16	4-5'	Composite	In-Situ	08/31/22	Benzene - NA	5,280	NA	NA	NA	NA
FS17	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	4,800	NA	NA	NA	NA
FS18	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	3,080	NA.	NA	NA.	NA
					Total BTEX - NA Benzene - NA	_				
FS19	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA	2,200	NA	NA	NA	NA
FS20	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA	2,600	NA	NA	NA	NA
FS21	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	4,400	NA	NA	NA	NA
FS22	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	2,400	NA	NA	NA	NA
FS23	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	1,680	NA	NA	NA	NA
FS24	4-5'	Composite	In-Situ	08/31/22	Benzene - NA	1,470	NA	NA	NA	NA
FS25	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - NA	1,540	NA	NA	NA	NA
					Total BTEX - NA Benzene - NA					
FS26	4-5'	Composite	In-Situ	08/31/22	Total BTEX - NA	1,460	NA	NA	NA	NA
FS27	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	400	NA	NA	NA	NA
FS28	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	720	NA	NA	NA	NA
FS29	4-5'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	400	NA	NA	NA	NA
FS30	4-5'	Composite	In-Situ	08/31/22	Benzene - NA	192	NA	NA	NA	NA
					Total BTEX - NA firmation Wall Samples					
TH-N	0-5'	Composite	In-Situ	08/28/22	Benzene - ND Total BTEX - ND	9,460	ND	ND	ND	ND
TH-E	0-5'	Composite	In-Situ	08/28/22	Benzene - ND	8,660	ND	ND	ND	ND
TH-S	0-5'	Composite	In-Situ	08/28/22	Total BTEX - ND Benzene - ND Total BTEX - ND	4,000	ND	ND	ND	ND
TH-W	0-5'	Composite	In-Situ	08/28/22	Benzene - ND	3,840	ND	ND	ND	ND
ESW	0-5'	Composite	In-Situ	08/28/22	Total BTEX - ND Benzene - ND	4,400	ND	ND	ND	ND
					Total BTEX - ND Benzene - ND					
NSW	0-5'	Composite	In-Situ	08/28/22	Total BTEX - ND Benzene - ND	304	ND	ND	ND	ND
E-SW-E	0-5'	Composite	Ex-Situ	08/28/22	Total BTEX - ND	4,400	ND	ND	ND	ND
E-SW-N	0-5'	Composite	Ex-Situ	08/28/22	Benzene - ND Total BTEX - ND	736	ND	ND	ND	ND
N-SW	0-4'	Composite	In-Situ	08/31/22	Benzene - NA Total BTEX - NA	48	NA	NA	NA	NA
N-SW02	0-4'	Composite	In-Situ	02/13/23	Benzene - ND	33.5	ND	ND	ND	ND
N-SW03	0-4'	Composite	In-Situ	02/13/23	Total BTEX - ND Benzene - ND Total BTEX - ND	8.11	ND	ND	ND	ND
N-SW04	0-4'	Composite	In-Situ	02/13/23	Benzene - ND	5.64	ND	ND	ND	ND
E SW	0-4'	Composite	In-Situ	08/31/22	Total BTEX - ND Benzene - NA	48	NA	NA	NA	NA
					Total BTEX - NA Benzene - NA					
S SW	0-5'	Composite	In-Situ	08/31/22	Total BTEX - NA Benzene - ND	48	NA	NA	NA	NA
S-SW02	0-4'	Composite	In-Situ	02/13/23	Total BTEX - ND	6.34	ND	ND	ND	ND
S-SW03	0-4'	Composite	In-Situ	02/13/23	Benzene - ND Total BTEX - ND	ND	ND	ND	ND	ND
S-SW04	0-4'	Composite	In-Situ	02/13/23	Benzene - ND Total BTEX - ND	6.13	ND	ND	ND	ND
S-SW05	0-4'	Composite	Ex-Situ	02/13/23	Benzene - ND	780	ND	ND	ND	ND
S-SW05.1	0-4'	Composite	In-Situ	02/20/23	Total BTEX - ND Benzene - ND	6.89	ND	ND	ND	ND
W SW				08/31/22	Total BTEX - ND Benzene - NA					
VV 3VV	0-6'	Composite	In-Situ	00/31/22	Total BTEX - NA Benzene - 10	48	NA	NA	NA	NA
	NMOCD	Reclamation Sta	ndards ⁴		Toluene - N/A			.		
(Applic	able for Soils from			Surface)	Ethylbenzene - N/A Total Xylenes - N/A	600		N/A		100
					Total BTEX - 50 Benzene - 10					
	NMOCD Remedia	ation and Delinea	tion Standards ⁵		Toluene - N/A	10.000				2 500
		able for Soils at D n 4 ft. Below Grad			Ethylbenzene - N/A Total Xylenes - N/A	10,000		N/A		2,500
					Total BTEX - 50					

BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

DEA = Denzene, totuene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

 Chloride = Chloride analyzed by EPA Method 300.

 TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GROIDROMRO)

 New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) — D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

^{5.} New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

^{5.} New Mexico Un Conservacio.

NA = Not Analyzed

ND = Non Detect

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclar

APPENDIX C – PHOTOGRAPHIC LOG

Gettysburg Tinhorn ■ Lea County, New Mexico October 12, 2022 ■ Terracon Project No. AR227018





PHOTO 1: View of site, facing East. / **GPS:** 32.22493, -103.50689



PHOTO 2: View of excavation, facing East / GPS: 32.22492, -103.50679

Gettysburg Tinhorn ■ Lea County, New Mexico October 12, 2022 ■ Terracon Project No. AR227018





PHOTO 3: View of excavation, facing West / GPS: 32.22491, -103.506



PHOTO 4: View of backfilled excavation area, facing northeast / GPS: 32:793457 - -104.57533

APPENDIX D - ANALYTICAL REPORT AND CHAIN OF CUSTODY



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8

Lubbock, TX 79424 Tel: (806)794-1296

Laboratory Job ID: 820-3158-1

Laboratory Sample Delivery Group: AR227018

Client Project/Site: Gettysburg Tinhorn

For:

Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Attn: Joseph Guesnier

MAMER

Authorized for release by: 1/21/2022 2:47:58 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/6/2023 7:24:24 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Н

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Laboratory Job ID: 820-3158-1

SDG: AR227018

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- · Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- · EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- · Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Jessica Kramer

Project Manager

1/21/2022 2:47:58 PM

RAMER

Client: Terracon Consulting Eng & Scientists Project/Site: Gettysburg Tinhorn

Laboratory Job ID: 820-3158-1 SDG: AR227018

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1 SDG: AR227018

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Lubbock

Case Narrative

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3158-1 Project/Site: Gettysburg Tinhorn SDG: AR227018

Job ID: 820-3158-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-3158-1

Receipt

The samples were received on 1/18/2022 3:57 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 7.5°C

GC/MS VOA

Method 8260C: The following samples were diluted due to it being lime sludge: (860-19305-C-1-A) and (860-19305-C-1-A MS). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Lubbock 1/21/2022 Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Client Sample ID: HA-1 (0-0.5)

Date Collected: 01/18/22 11:10

Date Received: 01/18/22 15:57

Lab Sample ID: 820-3158-1

Matrix: Soil

Job ID: 820-3158-1

SDG: AR227018

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/20/22 19:16	1
Toluene	<0.00502	U	0.00502		mg/Kg		01/20/22 12:01	01/20/22 19:16	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/20/22 19:16	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		01/20/22 12:01	01/20/22 19:16	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/20/22 19:16	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		01/20/22 12:01	01/20/22 19:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150				01/20/22 12:01	01/20/22 19:16	1
4-Bromofluorobenzene (Surr)	107		68 ₋ 152				01/20/22 12:01	01/20/22 19:16	1
Dibromofluoromethane (Surr)	97		53 - 142				01/20/22 12:01	01/20/22 19:16	1
Toluene-d8 (Surr)	108		70 - 130				01/20/22 12:01	01/20/22 19:16	1

Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Total BTEX <0.00201 U 0.00201 01/21/22 10:44 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL RL Unit D Prepared Analyzed Dil Fac Total TPH <50.1 U 50.1 01/21/22 10:56 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.1 U 50.1 Gasoline Range Organics mg/Kg 01/20/22 15:45 01/20/22 18:33 (GRO)-C6-C10 Diesel Range Organics (Over <50.1 U 50.1 mg/Kg 01/20/22 15:45 01/20/22 18:33 Oll Range Organics (Over C28-C36) <50.1 U 50.1 mg/Kg 01/20/22 15:45 01/20/22 18:33

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane (Surr) 98 65 - 130 01/20/22 15:45 01/20/22 18:33 01/20/22 15:45 01/20/22 18:33 o-Terphenyl (Surr) 98 65 - 130

Method: 300.0 - Anions, Ion Chromatography - DL Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac mg/Kg 01/20/22 10:21 01/20/22 18:25 Chloride 5730 98.8

Client Sample ID: HA-1 (0.5-1) Lab Sample ID: 820-3158-2 Date Collected: 01/18/22 11:15 **Matrix: Soil** Date Received: 01/18/22 15:57

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000994	U	0.000994		mg/Kg		01/20/22 12:01	01/20/22 19:37	1
Toluene	< 0.00497	U	0.00497		mg/Kg		01/20/22 12:01	01/20/22 19:37	1
Ethylbenzene	< 0.000994	U	0.000994		mg/Kg		01/20/22 12:01	01/20/22 19:37	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		01/20/22 12:01	01/20/22 19:37	1
o-Xylene	< 0.000994	U	0.000994		mg/Kg		01/20/22 12:01	01/20/22 19:37	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		01/20/22 12:01	01/20/22 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		56 - 150				01/20/22 12:01	01/20/22 19:37	

Date Received: 01/18/22 15:57

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Client Sample ID: HA-1 (0.5-1) Lab Sample ID: 820-3158-2 Date Collected: 01/18/22 11:15 Matrix: Soil

Job ID: 820-3158-1

SDG: AR227018

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		68 - 152	01/20/22 12:01	01/20/22 19:37	1
Dibromofluoromethane (Surr)	95		53 - 142	01/20/22 12:01	01/20/22 19:37	1
Toluene-d8 (Surr)	108		70 - 130	01/20/22 12:01	01/20/22 19:37	1

Method: Total BTEX - Total BTI	EX Calcula	ition							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00199	U	0.00199		mg/Kg			01/21/22 10:44	1
Method: 8015 NM - Diesel Rand	ge Organio	:s (DRO) (G	C)						

Method: 8015 NM - Diesel Rang	e Organic	s (DRO) (G	C)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/21/22 10:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/22 15:45	01/20/22 19:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/22 15:45	01/20/22 19:34	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/22 15:45	01/20/22 19:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		65 - 130				01/20/22 15:45	01/20/22 19:34	1
o-Terphenyl (Surr)	95		65 - 130				01/20/22 15:45	01/20/22 19:34	1

Method: 300.0 - Anions, Ion Ch	romatogra	phy - DL							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4660		101		mg/Kg		01/20/22 10:21	01/20/22 18:34	10

Lab Sample ID: 820-3158-3 Client Sample ID: HA-1 (1.5-2) Date Collected: 01/18/22 11:20 **Matrix: Soil** Date Received: 01/18/22 15:57

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		01/20/22 12:01	01/20/22 19:58	1
Toluene	<0.00505	U	0.00505		mg/Kg		01/20/22 12:01	01/20/22 19:58	1
Ethylbenzene	< 0.00101	U	0.00101		mg/Kg		01/20/22 12:01	01/20/22 19:58	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		01/20/22 12:01	01/20/22 19:58	1
o-Xylene	< 0.00101	U	0.00101		mg/Kg		01/20/22 12:01	01/20/22 19:58	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		01/20/22 12:01	01/20/22 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150				01/20/22 12:01	01/20/22 19:58	1
4-Bromofluorobenzene (Surr)	110		68 - 152				01/20/22 12:01	01/20/22 19:58	1
Dibromofluoromethane (Surr)	94		53 - 142				01/20/22 12:01	01/20/22 19:58	1
Toluene-d8 (Surr)	106		70 - 130				01/20/22 12:01	01/20/22 19:58	1

Total BTEX <0.00202 U 01/21/22 10:44 0.00202 mg/Kg

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Client Sample ID: HA-1 (1.5-2) Date Collected: 01/18/22 11:20

Lab Sample ID: 820-3158-3

Date Received: 01/18/22 15:57

Matrix: Soil

Job ID: 820-3158-1

SDG: AR227018

Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			01/21/22 10:56	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5		mg/Kg		01/20/22 15:45	01/20/22 19:54	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5		mg/Kg		01/20/22 15:45	01/20/22 19:54	1
Oll Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		01/20/22 15:45	01/20/22 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		65 - 130				01/20/22 15:45	01/20/22 19:54	1
o-Terphenyl (Surr)	102		65 - 130				01/20/22 15:45	01/20/22 19:54	1
- Method: 300.0 - Anions, Ion C	hromatogra	phy - DL							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: HA-2 (0-0.5) Lab Sample ID: 820-3158-4

102

mg/Kg

5810

<50.3 U

Date Collected: 01/18/22 11:25 **Matrix: Soil**

Chloride

01/20/22 10:21 01/20/22 18:43

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		01/20/22 12:01	01/21/22 01:33	1
Toluene	< 0.00496	U	0.00496		mg/Kg		01/20/22 12:01	01/21/22 01:33	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		01/20/22 12:01	01/21/22 01:33	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		01/20/22 12:01	01/21/22 01:33	1
o-Xylene	< 0.000992	U	0.000992		mg/Kg		01/20/22 12:01	01/21/22 01:33	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		01/20/22 12:01	01/21/22 01:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		56 - 150				01/20/22 12:01	01/21/22 01:33	1
4-Bromofluorobenzene (Surr)	112		68 - 152				01/20/22 12:01	01/21/22 01:33	1
Dibromofluoromethane (Surr)	95		53 - 142				01/20/22 12:01	01/21/22 01:33	1
Toluene-d8 (Surr)	109		70 - 130				01/20/22 12:01	01/21/22 01:33	1
Method: Total BTEX - Total	BTEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			01/21/22 11:34	1
Method: 8015 NM - Diesel I	Range Organic	s (DRO) (0	SC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.3	U	50.3		mg/Kg			01/21/22 10:56	1
	I Banga Organ	ics (DRO)	(GC)						
Method: 8015B NM - Diese	i Kange Organ	100 (5.10)							
Method: 8015B NM - Diese Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared 01/20/22 15:45	Analyzed 01/20/22 20:14	Dil Fac

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01/20/22 15:45 01/20/22 20:14

50.3

mg/Kg

Oll Range Organics (Over C28-C36)

C10-C28)

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

SDG: AR227018

Job ID: 820-3158-1

Client Sample ID: HA-2 (0-0.5)

Lab Sample ID: 820-3158-4

Date Collected: 01/18/22 11:25 Date Received: 01/18/22 15:57

Matrix: Soil

Surrogate	%Recovery G	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		65 - 130	01/20/22 15:45	01/20/22 20:14	1
o-Terphenyl (Surr)	98		65 - 130	01/20/22 15:45	01/20/22 20:14	1

Method: 300.0 - Anions, Ion Chromatography - DL Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 101 01/20/22 10:21 01/20/22 18:52 Chloride 5930 mg/Kg

Client Sample ID: HA-2 (0.5-1) Lab Sample ID: 820-3158-5

Date Collected: 01/18/22 11:30 Date Received: 01/18/22 15:57

Toluene-d8 (Surr)

01/20/22 12:01 01/21/22 01:54

Matrix: Soil

Method: 8260C - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 01:54	1
Toluene	< 0.00502	U	0.00502		mg/Kg		01/20/22 12:01	01/21/22 01:54	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 01:54	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		01/20/22 12:01	01/21/22 01:54	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 01:54	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		01/20/22 12:01	01/21/22 01:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		56 - 150				01/20/22 12:01	01/21/22 01:54	1
4-Bromofluorobenzene (Surr)	114		68 - 152				01/20/22 12:01	01/21/22 01:54	1
Dibromofluoromethane (Surr)	96		53 - 142				01/20/22 12:01	01/21/22 01:54	1

Method: Total BTEX - Total BT	EX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201		mg/Kg			01/21/22 11:34	1

70 - 130

106

Method: 8015 NM - Diesel Ran	ge Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			01/21/22 10:56	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/20/22 15:45	01/20/22 20:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/20/22 15:45	01/20/22 20:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/20/22 15:45	01/20/22 20:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	97		65 - 130				01/20/22 15:45	01/20/22 20:35	1
o-Terphenyl (Surr)	97		65 - 130				01/20/22 15:45	01/20/22 20:35	1

Method: 300.0 - Anions, Ion C	hromatography - DL						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4020	102	mg/Kg		01/20/22 10:21	01/20/22 19:19	10

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1/21/2022

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

SDG: AR227018

Client Sample ID: HA-2 (1.5-2)
Date Collected: 01/18/22 11:35

Date Received: 01/18/22 15:57

Lab Sample ID: 820-3158-6

01/20/22 15:45 01/20/22 21:15

Matrix: Soil

Job ID: 820-3158-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00129		0.000994		mg/Kg		01/20/22 12:01	01/21/22 02:15	1
Toluene	< 0.00497	U	0.00497		mg/Kg		01/20/22 12:01	01/21/22 02:15	1
Ethylbenzene	<0.000994	U	0.000994		mg/Kg		01/20/22 12:01	01/21/22 02:15	1
m,p-Xylenes	<0.00199	U	0.00199		mg/Kg		01/20/22 12:01	01/21/22 02:15	1
o-Xylene	<0.000994	U	0.000994		mg/Kg		01/20/22 12:01	01/21/22 02:15	1
Xylenes, Total	<0.00199	U	0.00199		mg/Kg		01/20/22 12:01	01/21/22 02:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			56 - 150				01/20/22 12:01	01/21/22 02:15	1
4-Bromofluorobenzene (Surr)	111		68 - 152				01/20/22 12:01	01/21/22 02:15	1
Dibromofluoromethane (Surr)	96		53 - 142				01/20/22 12:01	01/21/22 02:15	1
Toluene-d8 (Surr)	107		70 - 130				01/20/22 12:01	01/21/22 02:15	1

Method: Total BTEX - Total BTEX Calculation									
	Analyte	Result Qua	alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
	Total BTEX	<0.00199 U	0.00199	mg/Kg			01/21/22 11:34	1	

Method: 8015 NM - Diesel Range Organics (DRO) (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.2	U	50.2		mg/Kg			01/21/22 10:56	1

Method: 8015B NM - Diesel Ra	ange Organ	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.2	U	50.2		mg/Kg		01/20/22 15:45	01/20/22 21:15	1
Diesel Range Organics (Over C10-C28)	<50.2	U	50.2		mg/Kg		01/20/22 15:45	01/20/22 21:15	1
Oll Range Organics (Over C28-C36)	<50.2	U	50.2		mg/Kg		01/20/22 15:45	01/20/22 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

o-Terphenyl (Surr)	99	65 - 130			01/20/22 15:45	01/20/22 21:15	1
Method: 300.0 - Anions, Ion	Chromatography - DL						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3800	101	ma/Ka		01/20/22 10:21	01/20/22 19:27	10

65 - 130

99

Client Sample ID: HA-3 (0-0.5)

Date Collected: 01/18/22 11:40

Matrix: Soil

Date Received: 01/18/22 15:57

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 02:36	1
Toluene	< 0.00500	U	0.00500		mg/Kg		01/20/22 12:01	01/21/22 02:36	1
Ethylbenzene	< 0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 02:36	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		01/20/22 12:01	01/21/22 02:36	1
o-Xylene	< 0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 02:36	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		01/20/22 12:01	01/21/22 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		56 - 150				01/20/22 12:01	01/21/22 02:36	1

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1-Chlorooctane (Surr)

3

5

7

9

11

12

14

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3158-1

Project/Site: Gettysburg Tinhorn SDG: AR227018 Client Sample ID: HA-3 (0-0.5) Lab Sample ID: 820-3158-7

Matrix: Soil

Date Collected: 01/18/22 11:40 Date Received: 01/18/22 15:57

<10.0 U

Result Qualifier

<0.00200 U

Surrogate	%Recovery Qua	ıalifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	68 - 152	01/20/22 12:01	01/21/22 02:36	1
Dibromofluoromethane (Surr)	92	53 - 142	01/20/22 12:01	01/21/22 02:36	1
Toluene-d8 (Surr)	107	70 - 130	01/20/22 12:01	01/21/22 02:36	1

Method: Total BTEX - Total BTE	EX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			01/21/22 11:34	1

Method: 8015 NM - Diesel Range	Organic	s (DRO) (GC	;)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.5	U	49.5		mg/Kg			01/21/22 10:56	1

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.5	U	49.5	mg/Kg		01/20/22 15:45	01/20/22 21:35	1
Diesel Range Organics (Over C10-C28)	<49.5	U	49.5	mg/Kg		01/20/22 15:45	01/20/22 21:35	1
Oll Range Organics (Over C28-C36)	<49.5	U	49.5	mg/Kg		01/20/22 15:45	01/20/22 21:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		65 - 130			01/20/22 15:45	01/20/22 21:35	

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Method: 300.0 - Anions, Ion Chro	matography							
o-Terphenyl (Surr)	98	65 - 130		C	01/20/22 15:45	01/20/22 21:35	1	

Chloride 01/20/22 10:21 01/20/22 19:36 mg/Kg Client Sample ID: HA-3 (0.5-1) Lab Sample ID: 820-3158-8 Date Collected: 01/18/22 11:45 **Matrix: Soil**

10.0

Date Received: 01/18/22 15:57

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 02:57	1
Toluene	<0.00501	U	0.00501		mg/Kg		01/20/22 12:01	01/21/22 02:57	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 02:57	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg		01/20/22 12:01	01/21/22 02:57	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 02:57	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg		01/20/22 12:01	01/21/22 02:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	134		56 - 150				01/20/22 12:01	01/21/22 02:57	1
4-Bromofluorobenzene (Surr)	110		68 - 152				01/20/22 12:01	01/21/22 02:57	1
Dibromofluoromethane (Surr)	103		53 - 142				01/20/22 12:01	01/21/22 02:57	1
Toluene-d8 (Surr)	102		70 - 130				01/20/22 12:01	01/21/22 02:57	1

Eurofins Lubbock

Analyzed

01/21/22 11:34

Prepared

RL

0.00200

MDL Unit

mg/Kg

Dil Fac

Analyte

Total BTEX

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

SDG: AR227018

Job ID: 820-3158-1

Client Sample ID: HA-3 (0.5-1)

Lab Sample ID: 820-3158-8

Date Collected: 01/18/22 11:45 Date Received: 01/18/22 15:57

Matrix: Soil

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.3	U	49.3		mg/Kg			01/21/22 10:56	1
Method: 8015B NM - Diesel Ra	ange Organi	ics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.3	U	49.3		mg/Kg		01/20/22 15:45	01/20/22 21:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.3	U	49.3		mg/Kg		01/20/22 15:45	01/20/22 21:56	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.3	U	49.3		mg/Kg		01/20/22 15:45	01/20/22 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	98		65 - 130				01/20/22 15:45	01/20/22 21:56	1
o-Terphenyl (Surr)	97		65 - 130				01/20/22 15:45	01/20/22 21:56	1

Client Sample ID: HA-3 (1.5-2) Lab Sample ID: 820-3158-9

RL

9.96

MDL Unit

mg/Kg

Result Qualifier

<9.96 U

Date Collected: 01/18/22 11:50

Matrix: Soil

01/20/22 10:21 01/20/22 19:45

Analyzed

Prepared

Date Received: 01/18/22 15:57

Analyte

Chloride

Dil Fac

Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000992	U	0.000992		mg/Kg		01/20/22 12:01	01/21/22 03:18	1
Toluene	<0.00496	U	0.00496		mg/Kg		01/20/22 12:01	01/21/22 03:18	1
Ethylbenzene	<0.000992	U	0.000992		mg/Kg		01/20/22 12:01	01/21/22 03:18	1
m,p-Xylenes	<0.00198	U	0.00198		mg/Kg		01/20/22 12:01	01/21/22 03:18	1
o-Xylene	<0.000992	U	0.000992		mg/Kg		01/20/22 12:01	01/21/22 03:18	1
Xylenes, Total	<0.00198	U	0.00198		mg/Kg		01/20/22 12:01	01/21/22 03:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		56 - 150				01/20/22 12:01	01/21/22 03:18	1
4-Bromofluorobenzene (Surr)	112		68 - 152				01/20/22 12:01	01/21/22 03:18	1
Dibromofluoromethane (Surr)	95		53 - 142				01/20/22 12:01	01/21/22 03:18	1
Toluene-d8 (Surr)	105		70 - 130				01/20/22 12:01	01/21/22 03:18	1
Method: Total BTEX - Total B	TEX Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00198	U	0.00198		mg/Kg			01/21/22 11:34	1
Total BTEX : Method: 8015 NM - Diesel Rai					mg/Kg			01/21/22 11:34	1
	nge Organic			MDL	mg/Kg Unit		Prepared	01/21/22 11:34 Analyzed	Dil Fac
: Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (O	SC)	MDL		D	Prepared		Dil Fac
: Method: 8015 NM - Diesel Rai Analyte	nge Organic Result <49.4	s (DRO) (O Qualifier U	RL 49.4	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Method: 8015 NM - Diesel Rai Analyte Total TPH	nge Organic Result <49.4	s (DRO) (O Qualifier U	RL 49.4	MDL MDL	Unit mg/Kg	D_	Prepared Prepared	Analyzed	
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R	nge Organic Result <49.4	s (DRO) (O Qualifier U	RL 49.4 (GC)		Unit mg/Kg	_ =	<u> </u>	Analyzed 01/21/22 10:56	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	nge Organic Result <49.4 ange Organ Result	S (DRO) (O Qualifier U	RL 49.4 (GC)		Unit mg/Kg	_ =	Prepared	Analyzed 01/21/22 10:56 Analyzed	1

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3158-1 SDG: AR227018

Project/Site: Gettysburg Tinhorn

Client Sample ID: HA-3 (1.5-2)

Lab Sample ID: 820-3158-9

01/20/22 12:01 01/21/22 03:39

Date Collected: 01/18/22 11:50 Date Received: 01/18/22 15:57

Matrix: Soil

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	101	65 - 130	01/20/22 15:45	01/20/22 22:16	1
o-Terphenvl (Surr)	101	65 - 130	01/20/22 15:45	01/20/22 22:16	1

Method: 300.0 - Anions, Ion Chromatography

Result Qualifier Analyte RL MDL Unit Prepared Analyzed Dil Fac Chloride <9.88 U 01/20/22 10:21 01/20/22 19:54 9.88 mg/Kg

Client Sample ID: HA-3 (3.5-4) Lab Sample ID: 820-3158-10 Date Collected: 01/18/22 11:55 **Matrix: Soil**

Date Received: 01/18/22 15:57

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00101	U	0.00101		mg/Kg		01/20/22 12:01	01/21/22 03:39	1
Toluene	<0.00505	U	0.00505		mg/Kg		01/20/22 12:01	01/21/22 03:39	1
Ethylbenzene	<0.00101	U	0.00101		mg/Kg		01/20/22 12:01	01/21/22 03:39	1
m,p-Xylenes	<0.00202	U	0.00202		mg/Kg		01/20/22 12:01	01/21/22 03:39	1
o-Xylene	<0.00101	U	0.00101		mg/Kg		01/20/22 12:01	01/21/22 03:39	1
Xylenes, Total	<0.00202	U	0.00202		mg/Kg		01/20/22 12:01	01/21/22 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			56 - 150				01/20/22 12:01	01/21/22 03:39	1
4-Bromofluorobenzene (Surr)	103		68 - 152				01/20/22 12:01	01/21/22 03:39	1
Dibromofluoromethane (Surr)	90		53 - 142				01/20/22 12:01	01/21/22 03:39	1

Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00202 U	0.00202	ma/Ka			01/21/22 11:34	1	

70 - 130

106

Method: 8015 NM - Diesel Ran	ge Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.3	49.3	ma/Ka			01/21/22 10:56	

Method: 8015B NM - Diesel Ranalyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.3	U	49.3		mg/Kg		01/20/22 15:45	01/20/22 22:36	1
Diesel Range Organics (Over C10-C28)	<49.3	U	49.3		mg/Kg		01/20/22 15:45	01/20/22 22:36	1
Oll Range Organics (Over C28-C36)	<49.3	U	49.3		mg/Kg		01/20/22 15:45	01/20/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	103		65 - 130				01/20/22 15:45	01/20/22 22:36	1
o-Terphenyl (Surr)	103		65 - 130				01/20/22 15:45	01/20/22 22:36	1

Method: 300.0 - Anions, Ion C	hromatogra	phy							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<9.86	U	9.86		mg/Kg		01/20/22 10:21	01/20/22 20:03	1

Date Collected: 01/18/22 12:00

Date Received: 01/18/22 15:57

Analyte

Total TPH

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Client Sample ID: HA-3 (4.5-5)

SDG: AR227018

Lab Sample ID: 820-3158-11

Job ID: 820-3158-1

Ma

trix:	Soil	
•••••		

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 04:00	1
Toluene	<0.00502	U	0.00502		mg/Kg		01/20/22 12:01	01/21/22 04:00	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 04:00	1
m,p-Xylenes	<0.00201	U	0.00201		mg/Kg		01/20/22 12:01	01/21/22 04:00	1
o-Xylene	<0.00100	U	0.00100		mg/Kg		01/20/22 12:01	01/21/22 04:00	1
Xylenes, Total	<0.00201	U	0.00201		mg/Kg		01/20/22 12:01	01/21/22 04:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			56 - 150				01/20/22 12:01	01/21/22 04:00	1
4-Bromofluorobenzene (Surr)	106		68 - 152				01/20/22 12:01	01/21/22 04:00	1
Dibromofluoromethane (Surr)	97		53 - 142				01/20/22 12:01	01/21/22 04:00	1
Toluene-d8 (Surr)	102		70 - 130				01/20/22 12:01	01/21/22 04:00	1

Method: Total BTEX - Total BTE	X Calcula	tion							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00201	U	0.00201		mg/Kg			01/21/22 11:34	1
Method: 8015 NM - Diesel Rang	e Organic	s (DRO) (G	SC)						

RL

49.5

MDL Unit

mg/Kg

Prepared

Analyzed

01/21/22 10:56

Dil Fac

Result Qualifier

<49.5 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.5	U	49.5		mg/Kg		01/20/22 15:57	01/20/22 22:56	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.5	U	49.5		mg/Kg		01/20/22 15:57	01/20/22 22:56	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.5	U	49.5		mg/Kg		01/20/22 15:57	01/20/22 22:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		65 - 130				01/20/22 15:57	01/20/22 22:56	1
o-Terphenyl (Surr)	98		65 - 130				01/20/22 15:57	01/20/22 22:56	1

Method: 300.0 - Anions, Ion Chromatography										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<9.94	U	9.94		mg/Kg		01/20/22 10:21	01/20/22 20:30	1	

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3158-1 Project/Site: Gettysburg Tinhorn SDG: AR227018

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Soil Prep Type: Total/NA

			Pe	ercent Surre	ogate Rec
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)
820-3158-1	HA-1 (0-0.5)	109	107	97	108
820-3158-2	HA-1 (0.5-1)	108	112	95	108
820-3158-3	HA-1 (1.5-2)	109	110	94	106
820-3158-4	HA-2 (0-0.5)	107	112	95	109
820-3158-5	HA-2 (0.5-1)	112	114	96	106
820-3158-6	HA-2 (1.5-2)	107	111	96	107
820-3158-7	HA-3 (0-0.5)	107	107	92	107
820-3158-8	HA-3 (0.5-1)	134	110	103	102
820-3158-9	HA-3 (1.5-2)	109	112	95	105
820-3158-10	HA-3 (3.5-4)	111	103	90	106
820-3158-11	HA-3 (4.5-5)	113	106	97	102

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery					
		DCA	BFB	DBFM	TOL		
Lab Sample ID	Client Sample ID	(56-150)	(68-152)	(53-142)	(70-130)		
860-19305-C-1-A MS	Matrix Spike	102	111	74	105		
880-10324-A-1-A MS	Matrix Spike	106	112	95	107		
LCS 860-38211/3	Lab Control Sample	109	108	100	105		
LCS 860-38319/3	Lab Control Sample	109	108	98	103		
LCSD 860-38211/4	Lab Control Sample Dup	105	113	99	105		
LCSD 860-38319/4	Lab Control Sample Dup	108	110	100	102		
MB 860-38211/8	Method Blank	112	107	94	105		
MB 860-38319/8	Method Blank	112	108	92	104		

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Soil Prep Type: Total/NA

			Percent Surrogate R				
		1CO1	OTPH1				
Lab Sample ID	Client Sample ID	(65-130)	(65-130)				
820-3158-1	HA-1 (0-0.5)	98	98				
820-3158-1 MS	HA-1 (0-0.5)	98	99				
820-3158-1 MSD	HA-1 (0-0.5)	100	101				
820-3158-2	HA-1 (0.5-1)	97	95				
820-3158-3	HA-1 (1.5-2)	103	102				
820-3158-4	HA-2 (0-0.5)	98	98				

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Job ID: 820-3158-1 SDG: AR227018

Matrix: Soil Prep Type: Total/NA

		1CO1	ОТРН1	
Lab Sample ID	Client Sample ID	(65-130)	(65-130)	
820-3158-5	HA-2 (0.5-1)	97	97	
820-3158-6	HA-2 (1.5-2)	99	99	
820-3158-7	HA-3 (0-0.5)	98	98	
820-3158-8	HA-3 (0.5-1)	98	97	
820-3158-9	HA-3 (1.5-2)	101	101	
820-3158-10	HA-3 (3.5-4)	103	103	
820-3158-11	HA-3 (4.5-5)	99	98	

Surrogate Legend

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

			Per
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(65-130)	(65-130)
LCS 860-38330/2-A	Lab Control Sample	100	105
LCSD 860-38330/3-A	Lab Control Sample Dup	99	98
MB 860-38330/1-A	Method Blank	99	98
Surrogate Legend			

1CO = 1-Chlorooctane (Surr)

OTPH = o-Terphenyl (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1

SDG: AR227018

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 880-10324-A-1-A MS

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Matrix Spike Prep Type: Total/NA Prep Batch: 38102

Sample Sample Spike MS MS Limits Analyte Result Qualifier Added Result Qualifier Unit D %Rec Benzene <0.0250 U 1.25 1.123 mg/Kg 90 71 - 119 Toluene <0.125 U 1.25 1.245 mg/Kg 98 74 - 122 Ethylbenzene <0.0250 U 1.279 102 80 - 123 1.25 mg/Kg m,p-Xylenes <0.0499 U 1.25 1.241 mg/Kg 96 78 - 127 1.25 <0.0250 U 102 o-Xylene 1.270 mg/Kg 79 - 125

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		56 - 150
4-Bromofluorobenzene (Surr)	112		68 - 152
Dibromofluoromethane (Surr)	95		53 - 142
Toluene-d8 (Surr)	107		70 - 130

Lab Sample ID: MB 860-38211/8

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Method Blank

Prep Type: Total/NA

1

		1410							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			01/20/22 12:18	1
Toluene	<0.00500	U	0.00500		mg/Kg			01/20/22 12:18	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			01/20/22 12:18	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			01/20/22 12:18	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			01/20/22 12:18	1
Xylenes, Total	<0.00200	U	0.00200		mg/Kg			01/20/22 12:18	1

MB MB

MR MR

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112	56 - 150		01/20/22 12:18	1
4-Bromofluorobenzene (Surr)	107	68 - 152		01/20/22 12:18	1
Dibromofluoromethane (Surr)	94	53 - 142		01/20/22 12:18	1
Toluene-d8 (Surr)	105	70 - 130		01/20/22 12:18	1

Lab Sample ID: LCS 860-38211/3

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Added **Analyte** Result Qualifier Unit D %Rec Limits Benzene 0.0500 0.05050 101 66 - 142 mg/Kg 0.0500 74 - 130 Toluene 0.05530 mg/Kg 111 Ethylbenzene 0.0500 0.05958 mg/Kg 119 80 - 130 m,p-Xylenes 0.0500 0.05552 mg/Kg 111 78 - 130 o-Xylene 0.0500 0.05833 mg/Kg 79 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		56 - 150
4-Bromofluorobenzene (Surr)	108		68 ₋ 152
Dibromofluoromethane (Surr)	100		53 - 142
Toluene-d8 (Surr)	105		70 - 130

QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1 SDG: AR227018

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 860-38211/4

Matrix: Solid

Analysis Batch: 38211

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0500	0.04911		mg/Kg		98	66 - 142	3	25
Toluene	0.0500	0.05396		mg/Kg		108	74 - 130	2	25
Ethylbenzene	0.0500	0.05809		mg/Kg		116	80 - 130	3	25
m,p-Xylenes	0.0500	0.05506		mg/Kg		110	78 - 130	1	25
o-Xylene	0.0500	0.05825		mg/Kg		117	79 - 130	0	25

LCSD LCSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 105 56 - 150 68 - 152 113 4-Bromofluorobenzene (Surr) Dibromofluoromethane (Surr) 99 53 - 142 Toluene-d8 (Surr) 105 70 - 130

Lab Sample ID: 860-19305-C-1-A MS **Client Sample ID: Matrix Spike Matrix: Solid**

Analysis Batch: 38319

Prep Type: Total/NA Prep Batch: 38300

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.0209	U	1.05	1.040		mg/Kg		99	71 - 119	
Toluene	<0.105	U	1.05	1.122		mg/Kg		107	74 - 122	
Ethylbenzene	<0.0209	U	1.05	1.189		mg/Kg		114	80 - 123	
m,p-Xylenes	<0.0419	U	1.05	1.101		mg/Kg		105	78 - 127	
o-Xylene	<0.0209	U	1.05	1.161		mg/Kg		111	79 - 125	

MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 102 56 - 150 68 - 152 4-Bromofluorobenzene (Surr) 111 Dibromofluoromethane (Surr) 74 53 - 142 Toluene-d8 (Surr) 105 70 - 130

Client Sample ID: Method Blank Lab Sample ID: MB 860-38319/8 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 38319

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/Kg			01/21/22 00:51	1
Toluene	<0.00500	U	0.00500		mg/Kg			01/21/22 00:51	1
Ethylbenzene	<0.00100	U	0.00100		mg/Kg			01/21/22 00:51	1
m,p-Xylenes	<0.00200	U	0.00200		mg/Kg			01/21/22 00:51	1
o-Xylene	<0.00100	U	0.00100		mg/Kg			01/21/22 00:51	1
Xvlenes, Total	< 0.00200	U	0.00200		ma/Ka			01/21/22 00:51	1

		MB	MB				
;	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
7	1,2-Dichloroethane-d4 (Surr)	112		56 - 150		01/21/22 00:51	1
.	4-Bromofluorobenzene (Surr)	108		68 - 152		01/21/22 00:51	1
	Dibromofluoromethane (Surr)	92		53 - 142		01/21/22 00:51	1
L	Toluene-d8 (Surr)	104		70 - 130		01/21/22 00:51	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1 SDG: AR227018

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-38319/3

Matrix: Solid Analysis Batch: 38319 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Spike LCS LCS %Rec. Added Result Qualifier %Rec Limits Analyte Unit D Benzene 0.0500 0.04753 mg/Kg 95 66 - 142 Toluene 0.0500 0.05203 mg/Kg 104 74 - 130 Ethylbenzene 80 - 130 0.0500 0.05533 mg/Kg 111 0.0500 0.05197 78 - 130 m,p-Xylenes mg/Kg 104 0.0500 o-Xylene 0.05461 mg/Kg 109 79 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 56 - 150 109 108 4-Bromofluorobenzene (Surr) 68 - 152 Dibromofluoromethane (Surr) 98 53 - 142 103 70 - 130 Toluene-d8 (Surr)

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 860-38319/4 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 38319

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 0.0500 Benzene 0.04885 mg/Kg 98 66 - 142 3 25 0.0500 0.05010 25 Toluene mg/Kg 100 74 - 130 25 Ethylbenzene 0.0500 0.05434 mg/Kg 109 80 - 130 2 0.0500 0.05120 102 25 m,p-Xylenes mg/Kg 78 - 1300.0500 108 o-Xylene 0.05415 mg/Kg 79 - 130 25

LCSD LCSD Surrogate %Recovery Qualifier Limits 108 56 - 150 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) 110 68 - 152 Dibromofluoromethane (Surr) 100 53 - 142 Toluene-d8 (Surr) 102 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 860-38330/1-A

Matrix: Solid

Analysis Batch: 38201

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 38330

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 01/20/22 15:45 01/20/22 18:12 Gasoline Range Organics mg/Kg (GRO)-C6-C10 50.0 01/20/22 15:45 01/20/22 18:12 Diesel Range Organics (Over <50.0 U mg/Kg C10-C28) Oll Range Organics (Over C28-C36) 50.0 01/20/22 15:45 01/20/22 18:12 <50.0 U mg/Kg MD MD

	IVID	IVID				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane (Surr)	99		65 - 130	01/20/22 15:45	01/20/22 18:12	1
o-Terphenyl (Surr)	98		65 - 130	01/20/22 15:45	01/20/22 18:12	1

QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1

SDG: AR227018

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 860-38330/2-A

Lab Sample ID: LCSD 860-38330/3-A

Matrix: Solid

Analysis Batch: 38201

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 38330

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	993	1264		mg/Kg		127	70 - 135	
(GRO)-C6-C10								
Diesel Range Organics (Over	996	957.1		mg/Kg		96	70 - 135	
C10-C28)								

Matrix: Solid

Analysis Batch: 38201

	LCS LCS	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane (Surr)	100	65 - 130
o-Terphenyl (Surr)	105	65 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 38330 %Rec. **RPD** Limits RPD Limit

LCSD LCSD Spike Analyte Added Result Qualifier Unit D %Rec Gasoline Range Organics 993 1274 128 70 - 135 1 35 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 996 932.6 mg/Kg 94 70 - 135 9 35 C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane (Surr) 99 65 - 130 o-Terphenyl (Surr) 98 65 - 130

Lab Sample ID: 820-3158-1 MS

Matrix: Soil

Analysis Batch: 38201

Client Sample ID: HA-1 (0-0.5)

Prep Type: Total/NA Prep Batch: 38330

,										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	1000	1278		mg/Kg		127	70 - 135	
Diesel Range Organics (Over C10-C28)	<50.1	U	1010	942.4		mg/Kg		94	70 - 135	

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane (Surr)	98		65 - 130
o-Terphenyl (Surr)	99		65 - 130

Lab Sample ID: 820-3158-1 MSD

Matrix: Soil

Analysis Batch: 38201

Client Sample ID: HA-1 (0-0.5) Prep Type: Total/NA

Prep Batch: 38330

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.1	U	991	1299		mg/Kg		131	70 - 135	2	35
Diesel Range Organics (Over C10-C28)	<50.1	U	994	959.3		mg/Kg		96	70 - 135	2	35

MSD MSD

MS MS

Surrogate %Recovery Qualifier Limits 65 - 130 1-Chlorooctane (Surr) 100

Prep Batch: 38330

Prep Type: Total/NA

Client Sample ID: HA-3 (3.5-4)

Prep Type: Total/NA

Prep Batch: 38287

QC Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1 SDG: AR227018

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Client Sample ID: HA-1 (0-0.5) Lab Sample ID: 820-3158-1 MSD **Prep Type: Total/NA**

Matrix: Soil

Analysis Batch: 38201

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl (Surr) 101 65 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-38287/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 38216

Prep Batch: 38287 MB MB

Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 01/20/22 10:21 01/20/22 12:25 mg/Kg

Lab Sample ID: LCS 860-38287/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Prep Batch: 38287

Analysis Batch: 38216 Spike LCS LCS %Rec.

Added Result Qualifier Limits Analyte Unit D %Rec Chloride 100 93.46 mg/Kg 93 80 - 120

Lab Sample ID: LCSD 860-38287/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 38216

Prep Batch: 38287 LCSD LCSD Spike %Rec. **RPD**

Added Analyte Result Qualifier Unit D %Rec Limits **RPD** Limit Chloride 100 97.42 97 80 - 120 20 mg/Kg

Lab Sample ID: 820-3158-10 MS

Matrix: Soil

Prep Type: Total/NA **Analysis Batch: 38216** Prep Batch: 38287 Sample Sample MS MS Spike %Rec.

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride <9.86 U 98.2 95.45 mg/Kg 80 - 120

Lab Sample ID: 820-3158-10 MSD Client Sample ID: HA-3 (3.5-4)

Matrix: Soil

Analysis Batch: 38216

MSD MSD **RPD** Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit

Chloride <9.86 U 98.4 96.13 mg/Kg 98 80 - 120

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1 SDG: AR227018

GC/MS VOA

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-10324-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 38211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-1	HA-1 (0-0.5)	Total/NA	Soil	8260C	38274
820-3158-2	HA-1 (0.5-1)	Total/NA	Soil	8260C	38274
820-3158-3	HA-1 (1.5-2)	Total/NA	Soil	8260C	38274
MB 860-38211/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-38211/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-38211/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
880-10324-A-1-A MS	Matrix Spike	Total/NA	Solid	8260C	38102

Prep Batch: 38274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-1	HA-1 (0-0.5)	Total/NA	Soil	5035	
820-3158-2	HA-1 (0.5-1)	Total/NA	Soil	5035	
820-3158-3	HA-1 (1.5-2)	Total/NA	Soil	5035	
820-3158-4	HA-2 (0-0.5)	Total/NA	Soil	5035	
820-3158-5	HA-2 (0.5-1)	Total/NA	Soil	5035	
820-3158-6	HA-2 (1.5-2)	Total/NA	Soil	5035	
820-3158-7	HA-3 (0-0.5)	Total/NA	Soil	5035	
820-3158-8	HA-3 (0.5-1)	Total/NA	Soil	5035	
820-3158-9	HA-3 (1.5-2)	Total/NA	Soil	5035	
820-3158-10	HA-3 (3.5-4)	Total/NA	Soil	5035	
820-3158-11	HA-3 (4.5-5)	Total/NA	Soil	5035	

Prep Batch: 38300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-19305-C-1-A MS	Matrix Spike	Total/NA	Solid	5030C	

Analysis Batch: 38319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-4	HA-2 (0-0.5)	Total/NA	Soil	8260C	38274
820-3158-5	HA-2 (0.5-1)	Total/NA	Soil	8260C	38274
820-3158-6	HA-2 (1.5-2)	Total/NA	Soil	8260C	38274
820-3158-7	HA-3 (0-0.5)	Total/NA	Soil	8260C	38274
820-3158-8	HA-3 (0.5-1)	Total/NA	Soil	8260C	38274
820-3158-9	HA-3 (1.5-2)	Total/NA	Soil	8260C	38274
820-3158-10	HA-3 (3.5-4)	Total/NA	Soil	8260C	38274
820-3158-11	HA-3 (4.5-5)	Total/NA	Soil	8260C	38274
MB 860-38319/8	Method Blank	Total/NA	Solid	8260C	
LCS 860-38319/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 860-38319/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
860-19305-C-1-A MS	Matrix Spike	Total/NA	Solid	8260C	38300

Analysis Batch: 38431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-1	HA-1 (0-0.5)	Total/NA	Soil	Total BTEX	<u> </u>
820-3158-2	HA-1 (0.5-1)	Total/NA	Soil	Total BTEX	
820-3158-3	HA-1 (1.5-2)	Total/NA	Soil	Total BTEX	

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3158-1 Project/Site: Gettysburg Tinhorn SDG: AR227018

GC/MS VOA

Analysis Batch: 38443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-4	HA-2 (0-0.5)	Total/NA	Soil	Total BTEX	
820-3158-5	HA-2 (0.5-1)	Total/NA	Soil	Total BTEX	
820-3158-6	HA-2 (1.5-2)	Total/NA	Soil	Total BTEX	
820-3158-7	HA-3 (0-0.5)	Total/NA	Soil	Total BTEX	
820-3158-8	HA-3 (0.5-1)	Total/NA	Soil	Total BTEX	
820-3158-9	HA-3 (1.5-2)	Total/NA	Soil	Total BTEX	
820-3158-10	HA-3 (3.5-4)	Total/NA	Soil	Total BTEX	
820-3158-11	HA-3 (4.5-5)	Total/NA	Soil	Total BTEX	

GC Semi VOA

Analysis Batch: 37733

Prep Batc	Method	Matrix	Prep Type	Client Sample ID	Lab Sample ID
<u> </u>	8015 NM	Soil	Total/NA	HA-1 (0-0.5)	820-3158-1
	8015 NM	Soil	Total/NA	HA-1 (0.5-1)	820-3158-2
	8015 NM	Soil	Total/NA	HA-1 (1.5-2)	820-3158-3
	8015 NM	Soil	Total/NA	HA-2 (0-0.5)	820-3158-4
	8015 NM	Soil	Total/NA	HA-2 (0.5-1)	820-3158-5
	8015 NM	Soil	Total/NA	HA-2 (1.5-2)	820-3158-6
	8015 NM	Soil	Total/NA	HA-3 (0-0.5)	820-3158-7
	8015 NM	Soil	Total/NA	HA-3 (0.5-1)	820-3158-8
	8015 NM	Soil	Total/NA	HA-3 (1.5-2)	820-3158-9
	8015 NM	Soil	Total/NA	HA-3 (3.5-4)	820-3158-10
	8015 NM	Soil	Total/NA	HA-3 (4.5-5)	820-3158-11

Analysis Batch: 38201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-1	HA-1 (0-0.5)	Total/NA	Soil	8015B NM	38330
820-3158-2	HA-1 (0.5-1)	Total/NA	Soil	8015B NM	38330
820-3158-3	HA-1 (1.5-2)	Total/NA	Soil	8015B NM	38330
820-3158-4	HA-2 (0-0.5)	Total/NA	Soil	8015B NM	38330
820-3158-5	HA-2 (0.5-1)	Total/NA	Soil	8015B NM	38330
820-3158-6	HA-2 (1.5-2)	Total/NA	Soil	8015B NM	38330
820-3158-7	HA-3 (0-0.5)	Total/NA	Soil	8015B NM	38330
820-3158-8	HA-3 (0.5-1)	Total/NA	Soil	8015B NM	38330
820-3158-9	HA-3 (1.5-2)	Total/NA	Soil	8015B NM	38330
820-3158-10	HA-3 (3.5-4)	Total/NA	Soil	8015B NM	38330
820-3158-11	HA-3 (4.5-5)	Total/NA	Soil	8015B NM	38330
MB 860-38330/1-A	Method Blank	Total/NA	Solid	8015B NM	38330
LCS 860-38330/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	38330
LCSD 860-38330/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	38330
820-3158-1 MS	HA-1 (0-0.5)	Total/NA	Soil	8015B NM	38330
820-3158-1 MSD	HA-1 (0-0.5)	Total/NA	Soil	8015B NM	38330

Prep Batch: 38330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-1	HA-1 (0-0.5)	Total/NA	Soil	8015NM Prep	
820-3158-2	HA-1 (0.5-1)	Total/NA	Soil	8015NM Prep	
820-3158-3	HA-1 (1.5-2)	Total/NA	Soil	8015NM Prep	
820-3158-4	HA-2 (0-0.5)	Total/NA	Soil	8015NM Prep	
820-3158-5	HA-2 (0.5-1)	Total/NA	Soil	8015NM Prep	

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3158-1 Project/Site: Gettysburg Tinhorn SDG: AR227018

GC Semi VOA (Continued)

Prep Batch: 38330 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-6	HA-2 (1.5-2)	Total/NA	Soil	8015NM Prep	
820-3158-7	HA-3 (0-0.5)	Total/NA	Soil	8015NM Prep	
820-3158-8	HA-3 (0.5-1)	Total/NA	Soil	8015NM Prep	
820-3158-9	HA-3 (1.5-2)	Total/NA	Soil	8015NM Prep	
820-3158-10	HA-3 (3.5-4)	Total/NA	Soil	8015NM Prep	
820-3158-11	HA-3 (4.5-5)	Total/NA	Soil	8015NM Prep	
MB 860-38330/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 860-38330/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 860-38330/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-3158-1 MS	HA-1 (0-0.5)	Total/NA	Soil	8015NM Prep	
820-3158-1 MSD	HA-1 (0-0.5)	Total/NA	Soil	8015NM Prep	

HPLC/IC

Analysis Batch: 38216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-1 - DL	HA-1 (0-0.5)	Total/NA	Soil	300.0	38287
820-3158-2 - DL	HA-1 (0.5-1)	Total/NA	Soil	300.0	38287
820-3158-3 - DL	HA-1 (1.5-2)	Total/NA	Soil	300.0	38287
820-3158-4 - DL	HA-2 (0-0.5)	Total/NA	Soil	300.0	38287
820-3158-5 - DL	HA-2 (0.5-1)	Total/NA	Soil	300.0	38287
820-3158-6 - DL	HA-2 (1.5-2)	Total/NA	Soil	300.0	38287
820-3158-7	HA-3 (0-0.5)	Total/NA	Soil	300.0	38287
820-3158-8	HA-3 (0.5-1)	Total/NA	Soil	300.0	38287
820-3158-9	HA-3 (1.5-2)	Total/NA	Soil	300.0	38287
820-3158-10	HA-3 (3.5-4)	Total/NA	Soil	300.0	38287
820-3158-11	HA-3 (4.5-5)	Total/NA	Soil	300.0	38287
MB 860-38287/1-A	Method Blank	Total/NA	Solid	300.0	38287
LCS 860-38287/2-A	Lab Control Sample	Total/NA	Solid	300.0	38287
LCSD 860-38287/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	38287
820-3158-10 MS	HA-3 (3.5-4)	Total/NA	Soil	300.0	38287
820-3158-10 MSD	HA-3 (3.5-4)	Total/NA	Soil	300.0	38287

Prep Batch: 38287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3158-1 - DL	HA-1 (0-0.5)	Total/NA	Soil	300_Prep	
820-3158-2 - DL	HA-1 (0.5-1)	Total/NA	Soil	300_Prep	
820-3158-3 - DL	HA-1 (1.5-2)	Total/NA	Soil	300_Prep	
820-3158-4 - DL	HA-2 (0-0.5)	Total/NA	Soil	300_Prep	
820-3158-5 - DL	HA-2 (0.5-1)	Total/NA	Soil	300_Prep	
820-3158-6 - DL	HA-2 (1.5-2)	Total/NA	Soil	300_Prep	
820-3158-7	HA-3 (0-0.5)	Total/NA	Soil	300_Prep	
820-3158-8	HA-3 (0.5-1)	Total/NA	Soil	300_Prep	
820-3158-9	HA-3 (1.5-2)	Total/NA	Soil	300_Prep	
820-3158-10	HA-3 (3.5-4)	Total/NA	Soil	300_Prep	
820-3158-11	HA-3 (4.5-5)	Total/NA	Soil	300_Prep	
MB 860-38287/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-38287/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-38287/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-3158-10 MS	HA-3 (3.5-4)	Total/NA	Soil	300_Prep	
820-3158-10 MSD	HA-3 (3.5-4)	Total/NA	Soil	300_Prep	

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	38274	01/20/22 12:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	38211	01/20/22 19:16	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			38431	01/21/22 10:44	EM	XEN STF
Total/NA	Analysis	8015 NM		1			37733	01/21/22 10:56	DD	XEN STF
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	9.99 g	10 mL	38330 38201	01/20/22 15:45 01/20/22 18:33		XEN STF XEN STF
Total/NA Total/NA	Prep Analysis	300_Prep 300.0	DL DL	10	5.06 g	50 mL	38287 38216	01/20/22 10:21 01/20/22 18:25	ANP WP	XEN STF XEN STF

Lab Sample ID: 820-3158-2

Date Collected: 01/18/22 11:15

Client Sample ID: HA-1 (0.5-1)

Date Received: 01/18/22 15:57

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	38274	01/20/22 12:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	38211	01/20/22 19:37	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			38431	01/21/22 10:44	EM	XEN STF
Total/NA	Analysis	8015 NM		1			37733	01/21/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Prep			10 g	10 mL	38330	01/20/22 15:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			38201	01/20/22 19:34	T1S	XEN STF
Total/NA	Prep	300_Prep	DL		4.95 g	50 mL	38287	01/20/22 10:21	ANP	XEN STF
Total/NA	Analysis	300.0	DL	10			38216	01/20/22 18:34	WP	XEN STF

Lab Sample ID: 820-3158-3

Client Sample ID: HA-1 (1.5-2) Date Collected: 01/18/22 11:20 Date Received: 01/18/22 15:57

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	38274	01/20/22 12:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	38211	01/20/22 19:58	CSP	XEN STF
Total/NA	Analysis	Total BTEX		1			38431	01/21/22 10:44	EM	XEN STF
Total/NA	Analysis	8015 NM		1			37733	01/21/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.1 g	10 mL	38330	01/20/22 15:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			38201	01/20/22 19:54	T1S	XEN STF
Total/NA	Prep	300_Prep	DL		4.90 g	50 mL	38287	01/20/22 10:21	ANP	XEN STF
Total/NA	Analysis	300.0	DL	10			38216	01/20/22 18:43	WP	XEN STF

Client Sample ID: HA-2 (0-0.5)

Lab Sample ID: 820-3158-4 Date Collected: 01/18/22 11:25

Date Received: 01/18/22 15:57

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	38274	01/20/22 12:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	38319	01/21/22 01:33	A1S	XEN STF
Total/NA	Analysis	Total BTEX		1			38443	01/21/22 11:34	CSP	XEN STF

Eurofins Lubbock

Matrix: Soil

Date Collected: 01/18/22 11:25 Date Received: 01/18/22 15:57

Client Sample ID: HA-2 (0-0.5)

Lab Sample ID: 820-3158-4

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			37733	01/21/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Prep			9.95 g	10 mL	38330	01/20/22 15:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			38201	01/20/22 20:14	T1S	XEN STF
Total/NA	Prep	300_Prep	DL		4.97 g	50 mL	38287	01/20/22 10:21	ANP	XEN STF
Total/NA	Analysis	300.0	DL	10			38216	01/20/22 18:52	WP	XEN STF

Client Sample ID: HA-2 (0.5-1) Lab Sample ID: 820-3158-5 Date Collected: 01/18/22 11:30

Date Received: 01/18/22 15:57

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	38274	01/20/22 12:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	38319	01/21/22 01:54	A1S	XEN STF
Total/NA	Analysis	Total BTEX		1			38443	01/21/22 11:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			37733	01/21/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Prep			10 g	10 mL	38330	01/20/22 15:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			38201	01/20/22 20:35	T1S	XEN STF
Total/NA	Prep	300_Prep	DL		4.92 g	50 mL	38287	01/20/22 10:21	ANP	XEN STF
Total/NA	Analysis	300.0	DL	10			38216	01/20/22 19:19	WP	XEN STF

Lab Sample ID: 820-3158-6 Client Sample ID: HA-2 (1.5-2) Date Collected: 01/18/22 11:35 Matrix: Soil

Date Received: 01/18/22 15:57

Initial Batch **Batch** Dil Final **Batch** Prepared **Prep Type** Type Method Run **Factor Amount Amount** Number or Analyzed Analyst Lab Total/NA Prep 5035 5.03 g 5 mL 38274 01/20/22 12:01 CSP XEN STF Total/NA Analysis 8260C 1 5 mL 5 mL 38319 01/21/22 02:15 A1S XEN STF Total/NA Analysis **Total BTEX** 38443 01/21/22 11:34 CSP 1 XEN STF Total/NA 8015 NM Analysis 1 37733 01/21/22 10:56 DD XEN STF Total/NA Prep 8015NM Prep 38330 01/20/22 15:45 SAR XEN STF 9.97 g 10 mL Total/NA Analysis 8015B NM 1 38201 01/20/22 21:15 T1S XEN STF 01/20/22 10:21 ANP Total/NA Prep 300 Prep DL 4.93 g 50 mL 38287 XEN STF

Client Sample ID: HA-3 (0-0.5) Lab Sample ID: 820-3158-7 Date Collected: 01/18/22 11:40 **Matrix: Soil**

38216

01/20/22 19:27 WP

10

Date Received: 01/18/22 15:57

Analysis

300.0

DL

Total/NA

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	38274	01/20/22 12:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	38319	01/21/22 02:36	A1S	XEN STF
Total/NA	Analysis	Total BTEX		1			38443	01/21/22 11:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			37733	01/21/22 10:56	DD	XEN STF
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.11 g	10 mL	38330 38201	01/20/22 15:45 01/20/22 21:35		XEN STF XEN STF

Eurofins Lubbock

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XEN STF

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1 SDG: AR227018

Client Sample ID: HA-3 (0-0.5)

Date Collected: 01/18/22 11:40 Date Received: 01/18/22 15:57

Lab Sample ID: 820-3158-7

Matrix: Soil

Dil Batch Batch Initial Final Batch Prepared Method **Factor** Number or Analyzed **Prep Type** Type Run **Amount** Amount **Analyst** Lab Total/NA 300 Prep 38287 01/20/22 10:21 XEN STF Prep 4.98 g 50 mL Total/NA Analysis 01/20/22 19:36 WP 300.0 38216 1 XEN STF

Client Sample ID: HA-3 (0.5-1)

Date Collected: 01/18/22 11:45 Date Received: 01/18/22 15:57

Lab Sample ID: 820-3158-8

Matrix: Soil

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type Amount Amount** Number or Analyzed Type Run **Factor** Analyst Lab Total/NA Prep 5035 4.99 g 5 mL 38274 01/20/22 12:01 **CSP** XEN STF Total/NA 8260C 5 mL 5 mL 38319 Analysis 01/21/22 02:57 A1S 1 XEN STF Total/NA Analysis Total BTEX 38443 01/21/22 11:34 CSP XEN STF 1 Total/NA 8015 NM Analysis 1 37733 01/21/22 10:56 DD XEN STF Total/NA Prep 8015NM Prep 38330 01/20/22 15:45 SAR XEN STF 10.15 g 10 mL 01/20/22 21:56 T1S 8015B NM 38201 Total/NA Analysis XEN STF 1 Total/NA 300 Prep 38287 01/20/22 10:21 ANP XEN STF Prep 5.02 g 50 mL 38216 01/20/22 19:45 WP Total/NA Analysis 300.0 XEN STF 1

Client Sample ID: HA-3 (1.5-2)

Date Collected: 01/18/22 11:50

Date Received: 01/18/22 15:57

Lab Sample ID: 820-3158-9

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	38274	01/20/22 12:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	38319	01/21/22 03:18	A1S	XEN STF
Total/NA	Analysis	Total BTEX		1			38443	01/21/22 11:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			37733	01/21/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.12 g	10 mL	38330	01/20/22 15:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			38201	01/20/22 22:16	T1S	XEN STF
Total/NA	Prep	300_Prep			5.06 g	50 mL	38287	01/20/22 10:21	ANP	XEN STF
Total/NA	Analysis	300.0		1			38216	01/20/22 19:54	WP	XEN STF

Client Sample ID: HA-3 (3.5-4)

Date Collected: 01/18/22 11:55

Date Received: 01/18/22 15:57

Lab Sample ID: 820-3158-10

Matrix: Soil

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	38274	01/20/22 12:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	38319	01/21/22 03:39	A1S	XEN STF
Total/NA	Analysis	Total BTEX		1			38443	01/21/22 11:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			37733	01/21/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.15 g	10 mL	38330	01/20/22 15:45	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			38201	01/20/22 22:36	T1S	XEN STF
Total/NA	Prep	300_Prep			5.07 g	50 mL	38287	01/20/22 10:21	ANP	XEN STF
Total/NA	Analysis	300.0		1			38216	01/20/22 20:03	WP	XEN STF

Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Lab Sample ID: 820-3158-11

Client Sample ID: HA-3 (4.5-5)
Date Collected: 01/18/22 12:00

Lab Sample ID. 620-3156-11

Date Received: 01/18/22 15:57

Matrix: Soil

Job ID: 820-3158-1

SDG: AR227018

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	38274	01/20/22 12:01	CSP	XEN STF
Total/NA	Analysis	8260C		1	5 mL	5 mL	38319	01/21/22 04:00	A1S	XEN STF
Total/NA	Analysis	Total BTEX		1			38443	01/21/22 11:34	CSP	XEN STF
Total/NA	Analysis	8015 NM		1			37733	01/21/22 10:56	DD	XEN STF
Total/NA	Prep	8015NM Prep			10.1 g	10 mL	38330	01/20/22 15:57	SAR	XEN STF
Total/NA	Analysis	8015B NM		1			38201	01/20/22 22:56	T1S	XEN STF
Total/NA	Prep	300_Prep			5.03 g	50 mL	38287	01/20/22 10:21	ANP	XEN STF
Total/NA	Analysis	300.0		1			38216	01/20/22 20:30	WP	XEN STF

8

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-3158-1 Project/Site: Gettysburg Tinhorn SDG: AR227018

Laboratory: Eurofins Houston

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	P	rogram	Identification Number	Expiration Date
Texas	N	IELAP	T104704215-21-44	06-30-22
the agency does not o	offer certification.	•	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Soil	Total TPH	
8015B NM	8015NM Prep	Soil	Diesel Range Organics (Ove	er C10-C28)
8015B NM	8015NM Prep	Soil	Gasoline Range Organics (G	GRO)-C6-C10
8015B NM	8015NM Prep	Soil	Oll Range Organics (Over C	28-C36)
Total BTEX		Soil	Total BTEX	

Method Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1 SDG: AR227018

SDG. ARZZ7010

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	XEN STF
Total BTEX	Total BTEX Calculation	TAL SOP	XEN STF
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN STF
0.00	Anions, Ion Chromatography	MCAWW	XEN STF
00_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
035	Closed System Purge and Trap	SW846	XEN STF
015NM Prep	Microextraction	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-3158-1 SDG: AR227018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3158-1	HA-1 (0-0.5)	Soil	01/18/22 11:10	01/18/22 15:57
820-3158-2	HA-1 (0.5-1)	Soil	01/18/22 11:15	01/18/22 15:57
820-3158-3	HA-1 (1.5-2)	Soil	01/18/22 11:20	01/18/22 15:57
820-3158-4	HA-2 (0-0.5)	Soil	01/18/22 11:25	01/18/22 15:57
820-3158-5	HA-2 (0.5-1)	Soil	01/18/22 11:30	01/18/22 15:57
820-3158-6	HA-2 (1.5-2)	Soil	01/18/22 11:35	01/18/22 15:57
820-3158-7	HA-3 (0-0.5)	Soil	01/18/22 11:40	01/18/22 15:57
820-3158-8	HA-3 (0.5-1)	Soil	01/18/22 11:45	01/18/22 15:57
820-3158-9	HA-3 (1.5-2)	Soil	01/18/22 11:50	01/18/22 15:57
820-3158-10	HA-3 (3.5-4)	Soil	01/18/22 11:55	01/18/22 15:57
820-3158-11	HA-3 (4.5-5)	Soil	01/18/22 12:00	01/18/22 15:57

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Loc: 820 3158

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Matrix	Date	Time		Comp	Grab		Identifyi	ng Marks of Sa	ample(s)	Start Depth	End Depth	4 oz Glass	40 ml VOA	Ē,	5035 kit	BTEX (EPA Method 8260B)	Extended 8015	Chloride (EPA Method 300)					
ξ	Dute	1,,,,,	13	១	ษั		identiliyii	ig ividiks of se	ampic(s)	Start	End [4 02	9	250 ml Polv	53	BE)	T.	울					Lab Sample ID
s	1/18/2022	11:10		7	Х	-		HA-1 (0-0.5)		0	0.5'	Х				×	X	X					
s	1/18/2022	11:15	\top		Х			HA-1 (0.5-1)		0.5	1'	Х				x	X	X					
s	1/18/2022	11:20	T	٦	х			HA-1 (1.5-2)		1.5'	2'	Х				×	х	х					
s s s s s s s s s s	1/18/2022	11:25		٦	Х			HA-2 (0-0.5)		0	0.5'	Х				х	Х	Х					
s	1/18/2022	11:30			Х			HA-2 (0.5-1)		0.5	1'	Х				Х	Х	х					
S	1/18/2022	11:35			Х			HA-2 (1.5-2)		1.5'	2'	Х				х	Х	Х					
s	1/18/2022	11:40			Х			HA-3 (0-0.5)		0	0.5'	Х				х	Х	Х					
s	1/18/2022	11:45		\perp	Х			HA-3 (0.5-1)		0.5	1'	Х				х	х	Х					
s	1/18/2022	11:50		\perp	Х			HA-3 (1.5-2)		1.5'	2'	Х				х	Х	Х					
s	1/18/2022	11:55	\perp	_	Х			HA-3 (3.5-4)		3.5'	4'	Х		<u> </u>		x	Х	Х					
s	1/18/2022	12:00			Х			HA-3 (4.5-5)		4.5'	5'	х				х	х	х					
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Matrix		WW-Wastewater		١	W - Wate	97	S - Soil	t - tie	guid A - Air Bag	C - Charco	al tube		St - Sludg	ge									
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Responsive m Resourceful m Reliable



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Received by OCD: 6/8/2023 12:00:33 AM

Eurofins Lubbock

6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phone: 806-794-1296

Chain of Custody Record



💸 eurofins

Environment Testing America

Client Information (Sub Contract Lab)	Sampler			Lab F	PM: mer J	_eeic	<u> </u>					Camer	Fracking	No(s):			COC No: 820-2988.1				
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Company: Eurofins Environment Testing South Centr							s Requ Texas		see no	ite):						Job 82	0-3158-1				
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HA-2 (1 5-2) (820-3158-6)	1/18/22	Central 11:40		Solid	\coprod	X	+-	Х	Х	X			+	╁-			-				
HA-3 (0-0.5) (820-3158-7)	1/18/22	Central 11:45		Solid	$\downarrow \downarrow$	X	+	X	Х	×		\sqcup	↓	\bot	12						
HA-3 (0.5-1) (820-3158-8)	1/18/22	Central 11.50		Solid	Ш	X	X	X	Х	×		Ш	\perp	$\perp \perp$							
HA-3 (1.5-2) (820-3158-9)	1/18/22	Central		Solid	Ш	Х	X	Х	Х	Х											
Note: Since laboratory accreditations are subject to change, Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed ab	Testing South Centra	al, LLC places	the ownership of me	thod, and	alyte &	accred	tation o	complia	ance u	pon ou	t subcont	ract labo	atories.	This sam	nple shipme	nt is fo	orwarded under	chain-of	f-custody.	If the	
accreditation status should be brought to Eurofins Environment Testing South Cer	tral, LLC attention imr	nediately. If a	all requested accredi	tations ar	re curre	nt to da	ite, retu	ım the	signe	d Chair	of Custo	dy attes	ing to sa	id compli	cance to Eu	irofins	Environment Te	esting Sc	outh Centra	al, LLC.	
Possible Hazard Identification					s	ampl	e Dis	posa	(A:	fee m	ay be a	ssess	ed if s	amples	are retai	ned i	longer than	1 mor	nth)		
Unconfirmed							Retun	1 <u>To</u> (<u>Client</u>	<u>t</u>		Disposa	l By L	ab	An	chive	For	^	Months		
Deliverable Requested: I II III IV Other (specify)	Primary Delivera	ble Rank: 2	2		S	pecia	Instr	uctio	1\$/Q(C Rec	uireme	nts.									
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Page 65 of 175

Eurofins Lubbock

6701 Aberdeen Ave. Suite 8 Lubbock, TX 79424 Phone: 806-794-1296

Chain of Custody Record

🔆 eurofins	
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Environment Testing America

Received by OCD: 6/8/2023 12:00:33 AM

Client Information (Sub Contract Lab)	Sampler				ь РМ: amer	Jess	sica					Carrier Tracking No(s):							COC No: 820-2988.2					
Client Contact:	Phone:				Mail:								Stz	ite of C	Origin:				Page:					
Shipping/Receiving				jes	ssica.l								Te	xas					Page 2 of 2					
Company Eurofins Environment Testing South Centr						redit al ELAP			red (S	ée nó	te):								Job #:	158_1				
Address:	Due Date Requests	ed;			Ť															820-3158-1 Preservation Codes:				
4145 Greenbriar Dr	1/24/2022				丄		Analysis						que	este	<u>d</u>				A HO	A HCL		Hexane		
City: Stafford	TAT Requested (da	ays):									ļ			-					B Na	OH	N	None		
State, Zip;	1							Ξ.			- 1			-					D Nit	Acetate ric Acid	Ρ	AsNaO2 Na2O4S		
TX, 77477	<u> </u>							4			-		-						E Na F Me			Na2SQ3 Na2S2Q		
Phone: 281-240-4200(Tel)	PO#:	PO #.						F.		-	1								GAπ	nchior	S	H2\$O4		
Email:	WO #.	-8			₽		ē			ĺ			1			H AS	corbic Acid		Acetone	lecahydrate				
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Project Name: Gettysburg Tinhom	Project #: 82000340							S.		P.			1						L ED			other (sp	ecify)	
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	}		Туре	(Weweter,	ATTENNE		203	8	8,	7g	Ħ													
		\$ample	(C=comp,	S=solid, O=wasteloli,		2	8	158	<u> </u>	0	Total_BTEX	ł			1									
Sample Identification Client ID (Lab ID)	Sample Date	Time	G=grab)	9T=Tissue, A=A	Air) DE		200	5 5000	<u></u>						MENE		86.8 6			Special	Instr	uctions/	Note	
		11.55																		(C.) (1 (C.) (C.)		No. Will Teamen	THE PERSON NAMED IN	
HA-3 (3.5-4) (820-3158-10)	1/18/22	Central		Solid		\sqcup	<u> </u>	Х	<u> </u>	×	X		\perp		ļ		_ļ.							
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Note: Since laboratory accreditations are subject to change, Eurofins Environmen laboratory does not currently maintain accreditation in the State of Origin listed at accreditation status should be brought to Eurofins Environment Testing South Ce	ove for analysis/tests	/matrix being a	analyzed, the s	amples must	be ship	pped b	ack to	o the E	Eurofir	ıs Env	/ironm	ent Tes	ting S	outh C	entral,	LLC lab	oratory	or other	rinstruct	ions will be	provid	ed. Any d	hanges to	
Possible Hazard Identification						Sam	ple	Disp	osal	(A:	fee n	ay be	ass	esse	d if s	ample	s a <u>r</u> e	retain	ed lon	ger than	1 m	onth)		
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													Соп	ecte	d Te	mp:	_1	4				55,00		









Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists Job Number: 820-3158-1 SDG Number: AR227018

Login Number: 3158 **List Source: Eurofins Lubbock**

List Number: 1

Creator: Ruggles, Ashley

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Page 35 of 36 1/21/2022 Released to Imaging: 9/6/2023 7:24:24 AM

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3158-1

SDG Number: AR227018

List Source: Eurofins Houston

List Creation: 01/20/22 11:31 AM

List Number: 2 Creator: Milone, Jeancarlo

Login Number: 3158

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	True	

Released to Imaging: 9/6/2023 7:24:24 AM

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mike Adams Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Generated 2/16/2023 9:19:08 AM

JOB DESCRIPTION

Gettysburg SDG NUMBER AR227018

JOB NUMBER

890-4104-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/16/2023 9:19:08 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440

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Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD,and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- · The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

MRAMER

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2/16/2023

Client: Terracon Consulting Eng & Scientists Project/Site: Gettysburg

Laboratory Job ID: 890-4104-1 SDG: AR227018

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists Job ID: 890-4104-1 SDG: AR227018 Project/Site: Gettysburg

Qualifiers

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Indicates the analyte was analyzed for but not detected.

HPLC/IC

MCL

MDA

Quaimer	Qualifier Description			

Indicates the analyte was analyzed for but not detected. U

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit Minimum Level (Dioxin) ML

MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present **PQL Practical Quantitation Limit**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1 SDG: AR227018

Job ID: 890-4104-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4104-1

Receipt

The samples were received on 2/14/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.6°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: N-SW02 (890-4104-1), N-SW03 (890-4104-2), N-SW04 (890-4104-3), S-SW02 (890-4104-4), S-SW03 (890-4104-5), S-SW04 (890-4104-6) and S-SW05 (890-4104-7).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: N-SW02 (890-4104-1), N-SW03 (890-4104-2), N-SW04 (890-4104-3), S-SW02 (890-4104-4), S-SW03 (890-4104-5) and (LCSD 880-46331/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: S-SW04 (890-4104-6). Evidence of matrix interferences is not obvious.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD NM: The method blank for preparation batch 880-46347 and analytical batch 880-46349 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

SDG: AR227018

Job ID: 890-4104-1

Client Sample ID: N-SW02

Date Collected: 02/13/23 12:05 Date Received: 02/14/23 09:50

Lab Sample ID: 890-4104-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 06:42	1
Toluene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 06:42	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 06:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 06:42	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 06:42	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				02/14/23 14:57	02/16/23 06:42	1
1,4-Difluorobenzene (Surr)	107		70 - 130				02/14/23 14:57	02/16/23 06:42	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/16/23 09:32	1
Method: SW846 8015 NM - Diese Analyte	•	ics (DRO) (Qualifier	GC) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/15/23 15:53	1
Method: SW846 8015B NM - Die	sel Range Orga	nics (DRO)	(GC)						
modification of the control of the c	Joi Mango Orga								
Analyte	Result	Qualifier	· ,	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 02/14/23 17:42	Analyzed 02/15/23 14:28	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	RL 49.9	MDL	mg/Kg	<u>D</u>	02/14/23 17:42	02/15/23 14:28	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U	RL _	MDL		<u>D</u>			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	RL 49.9	MDL	mg/Kg	<u> </u>	02/14/23 17:42	02/15/23 14:28	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 <49.9 <49.9	U U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	02/14/23 17:42 02/14/23 17:42 02/14/23 17:42	02/15/23 14:28 02/15/23 14:28 02/15/23 14:28	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 <49.9 %Recovery	U U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	02/14/23 17:42 02/14/23 17:42 02/14/23 17:42 Prepared	02/15/23 14:28 02/15/23 14:28 02/15/23 14:28 Analyzed	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 <49.9 **Recovery 101	U U	RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	02/14/23 17:42 02/14/23 17:42 02/14/23 17:42 Prepared 02/14/23 17:42	02/15/23 14:28 02/15/23 14:28 02/15/23 14:28 Analyzed 02/15/23 14:28	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 <49.9 <49.9 %Recovery	U U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u> </u>	02/14/23 17:42 02/14/23 17:42 02/14/23 17:42 Prepared	02/15/23 14:28 02/15/23 14:28 02/15/23 14:28 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 <49.9 **Recovery 101 109	U U U Qualifier	RL 49.9 49.9 49.9 <u>Limits</u> 70 - 130 70 - 130	MDL	mg/Kg	<u> </u>	02/14/23 17:42 02/14/23 17:42 02/14/23 17:42 Prepared 02/14/23 17:42	02/15/23 14:28 02/15/23 14:28 02/15/23 14:28 Analyzed 02/15/23 14:28	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 **Recovery 101 109 **Chromatograp	U U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	02/14/23 17:42 02/14/23 17:42 02/14/23 17:42 Prepared 02/14/23 17:42	02/15/23 14:28 02/15/23 14:28 02/15/23 14:28 Analyzed 02/15/23 14:28	1 1 <i>Dil Fac</i> 1

Client Sample ID: N-SW03 Lab Sample ID: 890-4104-2 Date Collected: 02/13/23 12:10

Date Received: 02/14/23 09:50

Method: SW846 8021B - Volat	ile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 07:02	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130				02/14/23 14:57	02/16/23 07:02	1
1 4-Difluorobenzene (Surr)	108		70 - 130				02/14/23 14:57	02/16/23 07:02	1

Eurofins Carlsbad

Matrix: Solid

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1

SDG: AR227018

Client Sample ID: N-SW03

Date Collected: 02/13/23 12:10 Date Received: 02/14/23 09:50 Lab Sample ID: 890-4104-2

02/14/23 17:42 02/15/23 15:12

Matrix: Solid

Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/16/23 09:32	1
– Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/15/23 15:53	1
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		02/14/23 17:42	02/15/23 15:12	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		02/14/23 17:42	02/15/23 15:12	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/14/23 17:42	02/15/23 15:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Method: EPA 300.0 - Anions, Ion	Chromatography - Soluble	•					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.11	4.99	mg/Kg			02/15/23 21:09	1

70 - 130

108

Client Sample ID: N-SW04 Lab Sample ID: 890-4104-3 **Matrix: Solid**

Date Collected: 02/13/23 12:13

o-Terphenyl

Date Received: 02/14/23 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 07:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 07:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				02/14/23 14:57	02/16/23 07:23	1
1,4-Difluorobenzene (Surr) Method: TAL SOP Total BTEX	- Total BTEX Calo	culation	70 - 130				02/14/23 14:57	02/16/23 07:23	1
Method: TAL SOP Total BTEX Analyte	- Total BTEX Cald	Qualifier	RL	MDL	Unit	<u>D</u>	02/14/23 14:57 Prepared	Analyzed	·
• * * * * * * * * * * * * * * * * * * *	- Total BTEX Cald	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: TAL SOP Total BTEX Analyte	- Total BTEX Calc Result <0.00398 sel Range Organ	Qualifier U	RL 0.00398	MDL		<u>D</u>		Analyzed	
Method: TAL SOP Total BTEX Analyte Total BTEX	- Total BTEX Calc Result <0.00398 sel Range Organ	Qualifier U	RL 0.00398			<u>D</u>		Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00398 sel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00398		mg/Kg		Prepared	Analyzed 02/16/23 09:32	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00398 sel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 50.0		mg/Kg		Prepared	Analyzed 02/16/23 09:32 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00398 sel Range Organ Result <50.0 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U	RL 0.00398 GC) RL 50.0	MDL	mg/Kg		Prepared	Analyzed 02/16/23 09:32 Analyzed	·
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00398 sel Range Organ Result <50.0 iesel Range Orga	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00398 GC) RL 50.0	MDL	mg/Kg Unit mg/Kg		Prepared Prepared	Analyzed 02/16/23 09:32 Analyzed 02/16/23 09:18	Dil Fac

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

SDG: AR227018

Job ID: 890-4104-1

Client Sample ID: N-SW04

Date Collected: 02/13/23 12:13 Date Received: 02/14/23 09:50

Lab Sample ID: 890-4104-3

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/14/23 17:42	02/15/23 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130				02/14/23 17:42	02/15/23 15:56	1
o-Terphenyl	99		70 - 130				02/14/23 17:42	02/15/23 15:56	1

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.64		4.97		mg/Kg			02/15/23 21:16	1

Client Sample ID: S-SW02 Date Collected: 02/13/23 12:16

<49.8 U

81

91

6.34

Result Qualifier

Qualifier

%Recovery

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Lab Sample ID: 890-4104-4 **Matrix: Solid**

Date Received: 02/14/23 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:43	1
Toluene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:43	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 07:43	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 07:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 07:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130				02/14/23 14:57	02/16/23 07:43	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/14/23 14:57	02/16/23 07:43	1
Analyte Total BTEX			RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Eac
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
IOIAI DI EX	< 0.00398				ma er /1/ er				- Dii Fac
		J	0.00398		mg/Kg			02/16/23 09:32	1
Method: SW846 8015 NM - Die	esel Range Organ				mg/Kg				1
- Method: SW846 8015 NM - Die Analyte	-			MDL		D	Prepared		1 Dil Fac
	-	ics (DRO) (GC)	MDL		<u>D</u>	Prepared	02/16/23 09:32	1
Analyte		ics (DRO) (Control of the Control of	GC) RL 49.8	MDL	Unit	<u>D</u>	Prepared	02/16/23 09:32 Analyzed	1
Analyte Total TPH	Result <49.8	ics (DRO) (Control of the Control of	GC) RL 49.8		Unit	D	Prepared Prepared	02/16/23 09:32 Analyzed	1
Analyte Total TPH Method: SW846 8015B NM - D	Result <49.8	ics (DRO) (Qualifier Unics (DRO) Qualifier	RL 49.8 (GC)		Unit mg/Kg			02/16/23 09:32 Analyzed 02/16/23 09:18	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.8 iesel Range Orga Result <49.8	ics (DRO) ((Qualifier U unics (DRO) Qualifier U	(GC) RL 49.8 (GC) RL 49.8		Unit mg/Kg Unit mg/Kg		Prepared 02/14/23 17:42	02/16/23 09:32 Analyzed 02/16/23 09:18 Analyzed 02/15/23 16:18	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	Result <49.8 iesel Range Orga Result	ics (DRO) ((Qualifier U unics (DRO) Qualifier U	(GC) RL RL		Unit mg/Kg		Prepared	02/16/23 09:32 Analyzed 02/16/23 09:18 Analyzed	Dil Fac

49.8

RL

5.00

Limits

70 - 130

70 - 130

mg/Kg

MDL Unit

mg/Kg

02/14/23 17:42

Prepared

02/14/23 17:42

02/14/23 17:42

Prepared

02/15/23 16:18

Analyzed

02/15/23 16:18

02/15/23 16:18

Analyzed

02/15/23 21:22

Eurofins Carlsbad

Dil Fac

Dil Fac

Oll Range Organics (Over C28-C36)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

SDG: AR227018

Job ID: 890-4104-1

Client Sample ID: S-SW03

Lab Sample ID: 890-4104-5

Matrix: Solid

Date Collected: 02/13/23 12:20

Date Received: 02/14/23 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 08:04	1
Toluene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 08:04	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 08:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 08:04	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		02/14/23 14:57	02/16/23 08:04	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/14/23 14:57	02/16/23 08:04	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	135	S1+	70 - 130				02/14/23 14:57	02/16/23 08:04	
1,4-Difluorobenzene (Surr)	107		70 - 130				02/14/23 14:57	02/16/23 08:04	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/16/23 09:32	
			•						
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
		Qualifier	•	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/16/23 09:18	Dil Fac
Analyte	Result <49.9	Qualifier U	RL 49.9	MDL		<u>D</u>	Prepared		Dil Fa
Analyte Total TPH	Result <49.9 sel Range Orga Result	Qualifier Unics (DRO) Qualifier	RL 49.9	MDL	mg/Kg	<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.9 sel Range Orga	Qualifier Unics (DRO) Qualifier	RL 49.9 (GC)		mg/Kg			02/16/23 09:18	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	(GC)		mg/Kg		Prepared	02/16/23 09:18 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 Sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9 49.9		mg/Kg Unit mg/Kg		Prepared 02/14/23 17:42	02/16/23 09:18 Analyzed 02/15/23 16:40	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 Sel Range Orga Result <49.9 <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 17:42 02/14/23 17:42	02/16/23 09:18 Analyzed 02/15/23 16:40 02/15/23 16:40	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 17:42 02/14/23 17:42 02/14/23 17:42	02/16/23 09:18 Analyzed 02/15/23 16:40 02/15/23 16:40 02/15/23 16:40	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 17:42 02/14/23 17:42 02/14/23 17:42 Prepared	Analyzed 02/15/23 16:40 02/15/23 16:40 02/15/23 16:40 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 02/14/23 17:42 02/14/23 17:42 02/14/23 17:42 Prepared 02/14/23 17:42	02/16/23 09:18 Analyzed 02/15/23 16:40 02/15/23 16:40 Analyzed 02/15/23 16:40	Dil Face
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130		mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 02/14/23 17:42 02/14/23 17:42 02/14/23 17:42 Prepared 02/14/23 17:42	02/16/23 09:18 Analyzed 02/15/23 16:40 02/15/23 16:40 Analyzed 02/15/23 16:40	Dil Fac

Client Sample ID: S-SW04

Lab Sample ID: 890-4104-6

Matrix: Solid

Date Collected: 02/13/23 12:24

Date Received: 02/14/23 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/14/23 14:57	02/16/23 08:24	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/14/23 14:57	02/16/23 08:24	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/14/23 14:57	02/16/23 08:24	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/14/23 14:57	02/16/23 08:24	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/14/23 14:57	02/16/23 08:24	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/14/23 14:57	02/16/23 08:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130				02/14/23 14:57	02/16/23 08:24	1
1.4-Difluorobenzene (Surr)	109		70 - 130				02/14/23 14:57	02/16/23 08:24	1

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1 SDG: AR227018

Client Sample ID: S-SW04

Date Collected: 02/13/23 12:24 Date Received: 02/14/23 09:50

Lab Sample ID: 890-4104-6

Analyzed 02/15/23 21:46

Matrix: Solid

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/16/23 09:59	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/16/23 09:18	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		02/14/23 17:42	02/15/23 17:01	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		02/14/23 17:42	02/15/23 17:01	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/14/23 17:42	02/15/23 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	87	-	70 - 130				02/14/23 17:42	02/15/23 17:01	1
1-Chlorooctane	07								

4.96 Client Sample ID: S-SW05 Lab Sample ID: 890-4104-7

RL

MDL Unit

mg/Kg

D

Prepared

Date Collected: 02/13/23 12:28

Analyte

Chloride

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

6.13

Date Received: 02/14/23 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 08:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 08:44	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 08:44	,
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/14/23 14:57	02/16/23 08:44	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 08:44	
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/14/23 14:57	02/16/23 08:44	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	130		70 - 130				02/14/23 14:57	02/16/23 08:44	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/14/23 14:57	02/16/23 08:44	
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDI	Unit	n			
Method: TAL SOP Total BTEX	- Total BTEX Cald			MDI	l lait	В			
- '	- Total BTEX Cald	Qualifier	RL 0.00401	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/16/23 09:59	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00401 esel Range Organ	Qualifier U	RL 0.00401		mg/Kg		Prepared	Analyzed 02/16/23 09:59	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00401 esel Range Organ Result	Qualifier U ics (DRO) (Qualifier	RL	MDL MDL	mg/Kg	<u>D</u>		Analyzed 02/16/23 09:59 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die	- Total BTEX Calc Result <0.00401 esel Range Organ	Qualifier U ics (DRO) (Qualifier	RL 0.00401		mg/Kg		Prepared	Analyzed 02/16/23 09:59	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte	- Total BTEX Calc Result <0.00401 esel Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 ——————————————————————————————————		mg/Kg		Prepared	Analyzed 02/16/23 09:59 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH	- Total BTEX Calc Result <0.00401 esel Range Organ Result <50.0 diesel Range Organ	Qualifier U ics (DRO) (Qualifier U	RL 0.00401 ——————————————————————————————————		mg/Kg Unit mg/Kg		Prepared	Analyzed 02/16/23 09:59 Analyzed	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D	- Total BTEX Calc Result <0.00401 esel Range Organ Result <50.0 diesel Range Organ	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 0.00401 GC) RL 50.0 (GC)	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 02/16/23 09:59 Analyzed 02/16/23 09:18	Dil Fac
Method: TAL SOP Total BTEX Analyte Total BTEX Method: SW846 8015 NM - Die Analyte Total TPH Method: SW846 8015B NM - D Analyte Gasoline Range Organics	- Total BTEX Calc Result <0.00401 esel Range Organ Result <50.0 diesel Range Orga Result Result Result	Qualifier U ics (DRO) (Qualifier U mics (DRO) Qualifier U	RL 0.00401 GC) RL 50.0 (GC) RL	MDL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	Analyzed 02/16/23 09:59 Analyzed 02/16/23 09:18 Analyzed	Dil Fa

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1

SDG: AR227018

Client Sample ID: S-SW05

Date Collected: 02/13/23 12:28 Date Received: 02/14/23 09:50

Lab Sample ID: 890-4104-7

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/14/23 17:42	02/15/23 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130				02/14/23 17:42	02/15/23 17:23	1
o-Terphenyl	112		70 - 130				02/14/23 17:42	02/15/23 17:23	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	780		4.97		mg/Kg			02/15/23 21:52	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1 SDG: AR227018

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24624-A-1-B MS	Matrix Spike	123	104	
880-24624-A-1-C MSD	Matrix Spike Duplicate	115	107	
890-4104-1	N-SW02	133 S1+	107	
890-4104-2	N-SW03	137 S1+	108	
890-4104-3	N-SW04	134 S1+	102	
890-4104-4	S-SW02	136 S1+	100	
890-4104-5	S-SW03	135 S1+	107	
890-4104-6	S-SW04	132 S1+	109	
890-4104-7	S-SW05	130	100	
LCS 880-46331/1-A	Lab Control Sample	115	106	
LCSD 880-46331/2-A	Lab Control Sample Dup	58 S1-	104	
MB 880-46304/5-A	Method Blank	118	105	
MB 880-46331/5-A	Method Blank	122	101	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24741-A-3-B MS	Matrix Spike	110	113	
380-24741-A-3-C MSD	Matrix Spike Duplicate	103	107	
390-4104-1	N-SW02	101	109	
390-4104-2	N-SW03	99	108	
390-4104-3	N-SW04	93	99	
390-4104-4	S-SW02	81	91	
390-4104-5	S-SW03	96	105	
390-4104-6	S-SW04	87	98	
390-4104-7	S-SW05	101	112	
CS 880-46347/2-A	Lab Control Sample	88	99	
CSD 880-46347/3-A	Lab Control Sample Dup	88	97	
MB 880-46347/1-A	Method Blank	82	96	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1

SDG: AR227018

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46304/5-A

Matrix: Solid

Analysis Batch: 46357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46304

1

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:29	02/15/23 12:43	
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:29	02/15/23 12:43	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:29	02/15/23 12:43	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/14/23 11:29	02/15/23 12:43	
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/23 11:29	02/15/23 12:43	
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		02/14/23 11:29	02/15/23 12:43	•

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	02/14/23 11:29	02/15/23 12:43	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/14/23 11:29	02/15/23 12:43	1

Lab Sample ID: MB 880-46331/5-A

Matrix: Solid

Analysis Batch: 46357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46331

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/14/23 14:57	02/16/23 00:18	1
Xvlenes, Total	< 0.00400	U	0.00400		ma/Ka		02/14/23 14:57	02/16/23 00:18	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	02/14	1/23 14:57	02/16/23 00:18	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/14	1/23 14:57	02/16/23 00:18	1

Lab Sample ID: LCS 880-46331/1-A

Matrix: Solid

Analysis Batch: 46357

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 46331

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.1108		mg/Kg		111	70 - 130	
0.100	0.1072		mg/Kg		107	70 - 130	
0.100	0.1064		mg/Kg		106	70 - 130	
0.200	0.2221		mg/Kg		111	70 - 130	
0.100	0.1080		mg/Kg		108	70 - 130	
	0.100 0.100 0.100 0.100 0.200	Added Result 0.100 0.1108 0.100 0.1072 0.100 0.1064 0.200 0.2221	Added Result Qualifier 0.100 0.1108 0.100 0.1072 0.100 0.1064 0.200 0.2221	Added Result Qualifier Unit 0.100 0.1108 mg/Kg 0.100 0.1072 mg/Kg 0.100 0.1064 mg/Kg 0.200 0.2221 mg/Kg	Added Result Qualifier Unit D 0.100 0.1108 mg/Kg 0.100 0.1072 mg/Kg 0.100 0.1064 mg/Kg 0.200 0.2221 mg/Kg	Added Result Qualifier Unit D %Rec 0.100 0.1108 mg/Kg 111 0.100 0.1072 mg/Kg 107 0.100 0.1064 mg/Kg 106 0.200 0.2221 mg/Kg 111	Added Result Qualifier Unit D %Rec Limits 0.100 0.1108 mg/Kg 111 70 - 130 0.100 0.1072 mg/Kg 107 70 - 130 0.100 0.1064 mg/Kg 106 70 - 130 0.200 0.2221 mg/Kg 111 70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	115	70 _ 130
1.4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-46331/2-A

Matrix: Solid

Analysis Batch: 46357

Client Sample ID: Lab	Control Sample Dup
	Donner Towner Translation

Prep Type: Total/NA

Prep Batch: 46331

	Бріке	LCSD LCSD				%Rec		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1176	mg/Kg		118	70 - 130	6	35	

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1

SDG: AR227018

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-46331/2-A

Matrix: Solid Analysis Batch: 46357 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 46331

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.1137		mg/Kg		114	70 - 130	6	35
Ethylbenzene	0.100	0.1091		mg/Kg		109	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2289		mg/Kg		114	70 - 130	3	35
o-Xylene	0.100	0.1120		mg/Kg		112	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	58	S1-	70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 880-24624-A-1-B MS

Matrix: Solid

Analysis Batch: 46357

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 46331

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.100	0.09696		mg/Kg		97	70 - 130	
Toluene	<0.00202	U	0.100	0.09416		mg/Kg		94	70 - 130	
Ethylbenzene	<0.00202	U	0.100	0.09388		mg/Kg		93	70 - 130	
m-Xylene & p-Xylene	<0.00403	U	0.201	0.1964		mg/Kg		98	70 - 130	
o-Xylene	<0.00202	U	0.100	0.09605		mg/Kg		95	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	123	70 - 130
1,4-Difluorobenzene (Surr)	104	70 - 130

Lab Sample ID: 880-24624-A-1-C MSD

Matrix: Solid

Analysis Batch: 46357

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 46331

Timely ord Duttern 1000.											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0990	0.1121		mg/Kg		113	70 - 130	15	35
Toluene	<0.00202	U	0.0990	0.1049		mg/Kg		106	70 - 130	11	35
Ethylbenzene	<0.00202	U	0.0990	0.1014		mg/Kg		102	70 - 130	8	35
m-Xylene & p-Xylene	<0.00403	U	0.198	0.2102		mg/Kg		106	70 - 130	7	35
o-Xylene	<0.00202	U	0.0990	0.1001		mg/Kg		101	70 - 130	4	35

MSD MSD

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-46347/1-A

Matrix: Solid

Analysis Batch: 46349

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 46347

мв мв Result Qualifier MDL Unit Prepared <50.0 U 50.0 02/14/23 17:42 02/15/23 08:08 Gasoline Range Organics mg/Kg (GRO)-C6-C10

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1

SDG: AR227018

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-46347/1-A

Matrix: Solid

Analysis Batch: 46349

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46347

	IVID	IVID						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		02/14/23 17:42	02/15/23 08:08	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/14/23 17:42	02/15/23 08:08	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	02/14/23 17:42	02/15/23 08:08	1
o-Terphenyl	96		70 - 130	02/14/23 17:42	02/15/23 08:08	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-46347/2-A Matrix: Solid Prep Type: Total/NA

Analysis Batch: 46349 Prep Batch: 46347

Spike	LCS	LCS				%Rec	
Analyte Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics 1000	813.6		mg/Kg		81	70 - 130	
(GRO)-C6-C10							
Diesel Range Organics (Over 1000	913.6		mg/Kg		91	70 - 130	
C10-C28)							

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-46347/3-A

Matrix: Solid

Analysis Batch: 46349

Client Sample	ID: Lab	Control	Sample Du	ıp
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Prep Type: Total/NA

Prep Batch: 46347

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	876.1		mg/Kg		88	70 - 130	7	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	857.7		mg/Kg		86	70 - 130	6	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	88		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 880-24741-A-3-B MS

Matrix: Solid

Analysis Batch: 46349

	_			
Client	Sample	ın.	Matrix	Snika
Ollell				

Prep Type: Total/NA

Prep Batch: 46347

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1023		mg/Kg		98	70 - 130	
Diesel Range Organics (Over	158		1000	1090		mg/Kg		93	70 - 130	

C10-C28)

	INIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	110		70 - 130
o-Terphenyl	113		70 - 130

Eurofins Carlsbad

Released to Imaging: 9/6/2023 7:24:24 AM

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1

SDG: AR227018

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 880-24741-A-3-C MSD

Analysis Batch: 46349

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 46347

Sample Sample Spike MSD MSD RPD Result Qualifier Added RPD Limit Analyte Result Qualifier Unit %Rec Limits Gasoline Range Organics <50.0 U 1000 993.2 mg/Kg 95 70 - 130 3 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 158 1030 mg/Kg 87 70 - 130 6

C10-C28)

Matrix: Solid

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	107		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46422/1-A

Matrix: Solid

Analysis Batch: 46466

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: N-SW02

Client Sample ID: N-SW02

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

MB MB

	Analyte	Result Qual	itier RL	MDL Unit	D	Prepared	Analyzed	DII Fac
l	Chloride	<5.00 U	5.00	mg/Kg			02/15/23 20:32	1

Lab Sample ID: LCS 880-46422/2-A

Matrix: Solid

Analysis Batch: 46466

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	241.5		mg/Kg		97	90 - 110	

Lab Sample ID: LCSD 880-46422/3-A

Matrix: Solid

Analysis Batch: 46466

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	241.7		ma/Ka		97	90 - 110		20

Lab Sample ID: 890-4104-1 MS

Matrix: Solid

Analysis Batch: 46466

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	33.5		248	266.6		mg/Kg		94	90 - 110	

Lab Sample ID: 890-4104-1 MSD

Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 46466											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	33.5		248	267.2		mg/Kg		94	90 - 110	0	20

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1 SDG: AR227018

GC VOA

Prep Batch: 46304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46304/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 46331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4104-1	N-SW02	Total/NA	Solid	5035	
890-4104-2	N-SW03	Total/NA	Solid	5035	
890-4104-3	N-SW04	Total/NA	Solid	5035	
890-4104-4	S-SW02	Total/NA	Solid	5035	
890-4104-5	S-SW03	Total/NA	Solid	5035	
890-4104-6	S-SW04	Total/NA	Solid	5035	
890-4104-7	S-SW05	Total/NA	Solid	5035	
MB 880-46331/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46331/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46331/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24624-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-24624-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 46357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4104-1	N-SW02	Total/NA	Solid	8021B	46331
890-4104-2	N-SW03	Total/NA	Solid	8021B	46331
890-4104-3	N-SW04	Total/NA	Solid	8021B	46331
890-4104-4	S-SW02	Total/NA	Solid	8021B	46331
890-4104-5	S-SW03	Total/NA	Solid	8021B	46331
890-4104-6	S-SW04	Total/NA	Solid	8021B	46331
890-4104-7	S-SW05	Total/NA	Solid	8021B	46331
MB 880-46304/5-A	Method Blank	Total/NA	Solid	8021B	46304
MB 880-46331/5-A	Method Blank	Total/NA	Solid	8021B	46331
LCS 880-46331/1-A	Lab Control Sample	Total/NA	Solid	8021B	46331
LCSD 880-46331/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46331
880-24624-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	46331
880-24624-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	46331

Analysis Batch: 46503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4104-1	N-SW02	Total/NA	Solid	Total BTEX	
890-4104-2	N-SW03	Total/NA	Solid	Total BTEX	
890-4104-3	N-SW04	Total/NA	Solid	Total BTEX	
890-4104-4	S-SW02	Total/NA	Solid	Total BTEX	
890-4104-5	S-SW03	Total/NA	Solid	Total BTEX	
890-4104-6	S-SW04	Total/NA	Solid	Total BTEX	
890-4104-7	S-SW05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 46347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4104-1	N-SW02	Total/NA	Solid	8015NM Prep	
890-4104-2	N-SW03	Total/NA	Solid	8015NM Prep	
890-4104-3	N-SW04	Total/NA	Solid	8015NM Prep	
890-4104-4	S-SW02	Total/NA	Solid	8015NM Prep	

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1 SDG: AR227018

GC Semi VOA (Continued)

Prep Batch: 46347 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4104-5	S-SW03	Total/NA	Solid	8015NM Prep	
890-4104-6	S-SW04	Total/NA	Solid	8015NM Prep	
890-4104-7	S-SW05	Total/NA	Solid	8015NM Prep	
MB 880-46347/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-46347/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-46347/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-24741-A-3-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-24741-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 46349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4104-1	N-SW02	Total/NA	Solid	8015B NM	46347
890-4104-2	N-SW03	Total/NA	Solid	8015B NM	46347
890-4104-3	N-SW04	Total/NA	Solid	8015B NM	46347
890-4104-4	S-SW02	Total/NA	Solid	8015B NM	46347
890-4104-5	S-SW03	Total/NA	Solid	8015B NM	46347
890-4104-6	S-SW04	Total/NA	Solid	8015B NM	46347
890-4104-7	S-SW05	Total/NA	Solid	8015B NM	46347
MB 880-46347/1-A	Method Blank	Total/NA	Solid	8015B NM	46347
LCS 880-46347/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	46347
LCSD 880-46347/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	46347
880-24741-A-3-B MS	Matrix Spike	Total/NA	Solid	8015B NM	46347
880-24741-A-3-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	46347

Analysis Batch: 46465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4104-1	N-SW02	Total/NA	Solid	8015 NM	
890-4104-2	N-SW03	Total/NA	Solid	8015 NM	
890-4104-3	N-SW04	Total/NA	Solid	8015 NM	
890-4104-4	S-SW02	Total/NA	Solid	8015 NM	
890-4104-5	S-SW03	Total/NA	Solid	8015 NM	
890-4104-6	S-SW04	Total/NA	Solid	8015 NM	
890-4104-7	S-SW05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46422

Released to Imaging: 9/6/2023 7:24:24 AM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-4104-1	N-SW02	Soluble	Solid	DI Leach	
890-4104-2	N-SW03	Soluble	Solid	DI Leach	
890-4104-3	N-SW04	Soluble	Solid	DI Leach	
890-4104-4	S-SW02	Soluble	Solid	DI Leach	
890-4104-5	S-SW03	Soluble	Solid	DI Leach	
890-4104-6	S-SW04	Soluble	Solid	DI Leach	
890-4104-7	S-SW05	Soluble	Solid	DI Leach	
MB 880-46422/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46422/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46422/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4104-1 MS	N-SW02	Soluble	Solid	DI Leach	
890-4104-1 MSD	N-SW02	Soluble	Solid	DI Leach	

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4104-1

Project/Site: Gettysburg

SDG: AR227018

HPLC/IC

Analysis Batch: 46466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4104-1	N-SW02	Soluble	Solid	300.0	46422
890-4104-2	N-SW03	Soluble	Solid	300.0	46422
890-4104-3	N-SW04	Soluble	Solid	300.0	46422
890-4104-4	S-SW02	Soluble	Solid	300.0	46422
890-4104-5	S-SW03	Soluble	Solid	300.0	46422
890-4104-6	S-SW04	Soluble	Solid	300.0	46422
890-4104-7	S-SW05	Soluble	Solid	300.0	46422
MB 880-46422/1-A	Method Blank	Soluble	Solid	300.0	46422
LCS 880-46422/2-A	Lab Control Sample	Soluble	Solid	300.0	46422
LCSD 880-46422/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46422
890-4104-1 MS	N-SW02	Soluble	Solid	300.0	46422
890-4104-1 MSD	N-SW02	Soluble	Solid	300.0	46422

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Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1 SDG: AR227018

Client Sample ID: N-SW02

Date Collected: 02/13/23 12:05 Date Received: 02/14/23 09:50

Lab Sample ID: 890-4104-1

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 46331 Total/NA Prep 5.02 g 5 mL 02/14/23 14:57 MNR **EET MID** 8021B Total/NA Analysis 1 5 mL 5 mL 46357 02/16/23 06:42 MNR **EET MID** Total/NA Analysis Total BTEX 46503 02/16/23 09:32 AJ **EET MID** Total/NA 8015 NM Analysis 1 46465 02/15/23 15:53 SM **EET MID** 8015NM Prep Total/NA 46347 02/14/23 17:42 EET MID Prep 10.02 g 10 mL SM Total/NA Analysis 8015B NM 1 uL 1 uL 46349 02/15/23 14:28 SM **EET MID** Soluble 5.05 g 50 mL 46422 02/15/23 13:43 KS Leach DI Leach FFT MID Soluble Analysis 300.0 46466 02/15/23 20:51 СН **EET MID**

Client Sample ID: N-SW03

Date Collected: 02/13/23 12:10

Date Received: 02/14/23 09:50

Lab Sample ID: 890-4104-2

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 07:02	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46503	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46465	02/15/23 15:53	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	46347	02/14/23 17:42	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46349	02/15/23 15:12	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	46422	02/15/23 13:43	KS	EET MID
Soluble	Analysis	300.0		1			46466	02/15/23 21:09	CH	EET MID

Client Sample ID: N-SW04

Date Collected: 02/13/23 12:13

Date Received: 02/14/23 09:50

Lab Sample ID: 890-4104-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 07:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46503	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46465	02/16/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	46347	02/14/23 17:42	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46349	02/15/23 15:56	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	46422	02/15/23 13:43	KS	EET MID
Soluble	Analysis	300.0		1			46466	02/15/23 21:16	CH	EET MID

Client Sample ID: S-SW02

Date Collected: 02/13/23 12:16

Date Received: 02/14/23 09:50

Lab Sample ID:	890-4104-4
-	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 07:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46503	02/16/23 09:32	AJ	EET MID

Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

SDG: AR227018

Client Sample ID: S-SW02 Date Collected: 02/13/23 12:16

Lab Sample ID: 890-4104-4

Matrix: Solid

Job ID: 890-4104-1

Date Received: 02/14/23 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			46465	02/16/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	46347	02/14/23 17:42	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46349	02/15/23 16:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46422	02/15/23 13:43	KS	EET MID
Soluble	Analysis	300.0		1			46466	02/15/23 21:22	CH	EET MID

Client Sample ID: S-SW03 Lab Sample ID: 890-4104-5

Date Collected: 02/13/23 12:20

Matrix: Solid

Date Received: 02/14/23 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 08:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46503	02/16/23 09:32	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46465	02/16/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	46347	02/14/23 17:42	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46349	02/15/23 16:40	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	46422	02/15/23 13:43	KS	EET MID
Soluble	Analysis	300.0		1			46466	02/15/23 21:28	CH	EET MID

Client Sample ID: S-SW04 Lab Sample ID: 890-4104-6

Date Collected: 02/13/23 12:24 Date Received: 02/14/23 09:50 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 08:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46503	02/16/23 09:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46465	02/16/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	46347	02/14/23 17:42	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	46349	02/15/23 17:01	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	46422	02/15/23 13:43	KS	EET MID
Soluble	Analysis	300.0		1			46466	02/15/23 21:46	CH	EET MID

Client Sample ID: S-SW05 Lab Sample ID: 890-4104-7

Date Collected: 02/13/23 12:28 Date Received: 02/14/23 09:50

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	46331	02/14/23 14:57	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46357	02/16/23 08:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			46503	02/16/23 09:59	AJ	EET MID
Total/NA	Analysis	8015 NM		1			46465	02/16/23 09:18	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	46347 46349	02/14/23 17:42 02/15/23 17:23	SM SM	EET MID

Eurofins Carlsbad

Matrix: Solid

2/16/2023

Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1

SDG: AR227018

Client Sample ID: S-SW05

Date Collected: 02/13/23 12:28 Date Received: 02/14/23 09:50 Lab Sample ID: 890-4104-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	46422	02/15/23 13:43	KS	EET MID
Soluble	Analysis	300.0		1			46466	02/15/23 21:52	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4104-1 Project/Site: Gettysburg SDG: AR227018

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	rogram	Identification Number	Expiration Date	
Texas	NI	ELAP	T104704400-22-25	06-30-23	
,	are included in this report, but	ut the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for wh	
the agency does not of	fer certification.				
the agency does not of Analysis Method	fer certification . Prep Method	Matrix	Analyte		
,		Matrix Solid	Analyte Total TPH		

Method Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1 SDG: AR227018

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	EPA	EET MID
035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
I Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg

Job ID: 890-4104-1 SDG: AR227018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4104-1	N-SW02	Solid	02/13/23 12:05	02/14/23 09:50
890-4104-2	N-SW03	Solid	02/13/23 12:10	02/14/23 09:50
890-4104-3	N-SW04	Solid	02/13/23 12:13	02/14/23 09:50
890-4104-4	S-SW02	Solid	02/13/23 12:16	02/14/23 09:50
890-4104-5	S-SW03	Solid	02/13/23 12:20	02/14/23 09:50
890-4104-6	S-SW04	Solid	02/13/23 12:24	02/14/23 09:50
890-4104-7	S-SW05	Solid	02/13/23 12:28	02/14/23 09:50

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Released to Imaging: 9/6/2023 7:24:24 AM

CHAIN OF CUSTOCY RECORD

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						Laboratory:					T						LAB USE ONLYDUE DATE:
Sample		45 45	02.W. Pi	erce St Carlsbad NM ke Adams vis Casey Project Name Cae Hy's but	88220	Phone: Contact: SRS #: Sampler's Signa	iture		pe of Cor	1		Chloride (EPA Method 300)	TPH Extended 8015	BTEX (EPA Method 8021B)	YSIS REQUEST		TEMP OF COOLER WHEN RECEIVED (°C)
Matrix	Date	Time	Comp		g Marks of S		Start Depth End	Depth 4 oz Glass	2 oz Glass	250 ml Poly		Chloride	TPH Exte	R BTEX (EP			l ab Sample ID
		1213		-x-5w0 -5-5w0 -5-5w0 -5-5w0	2 3 4												890-4104 Chain of Custody
		1228		(-SWO													
FURNIADO	UND TIME			Normal 748-H	our Rush	□ 24-Hour Rush	TD	PP Lahor:	atory Rev	view Chec	klist				Yes 🗆 N	lo	
Relinquish	ed by (Sign		tie	Date:	Time:	Received by (Si	gnature)		-14-		9	Time:	>	Bill To	NIMOS	7⊒ - €	O . O e-mail results to:
Relinquish	ed by (Sigr	ature)		Date:	Time:	Received by (Si	gnature)			Date:		Time:		(0.8/6	9.4	travis.casey@terracon.com mike.adams@terracon.com
Relinquish Matrix Container	ed by (Sign	WW-Wastew		Date: - Water S - So G - Amber Gla 250 r			C - Charcother	-					ibboci	k Tex	kas 79424 =	806.300.0	.0140

Received by OCD: 6/8/2023 12:00:33 AM

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists Job Number: 890-4104-1 SDG Number: AR227018

Login Number: 4104 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4104-1 SDG Number: AR227018

Login Number: 4104 **List Source: Eurofins Midland** List Number: 2 List Creation: 02/15/23 12:16 PM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Travis Casey
Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424
Generated 2/27/2023 11:53:03 AM

JOB DESCRIPTION

Gettysburg Tinhorn

JOB NUMBER

890-4157-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated 2/27/2023 11:53:03 AM

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

2/27/2023

Eurofins Carlsbad

Compliance Statement

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD,and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-05499

- Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

MRAMER

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Laboratory Job ID: 890-4157-1

Client: Terracon Consulting Eng & Scientists Project/Site: Gettysburg Tinhorn

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists

Job ID: 890-4157-1

Project/Site: Gettysburg Tinhorn

Qualifiers

_	$\overline{}$		$\overline{}$	•
G	U	v	U	А

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

LOD

NC

J	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)

LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Limit of Detection (DoD/DOE)

MDI	Method Detection Limit
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit

ND	Not Detected at the reporting limit (or MDL or EDL if shown)
----	--

NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

QC	Quality Control
RFR	Relative Error Ratio (Radiochemistry)

Not Calculated

Pl Reporting Limit or Requested Limit (Radiochem	nictry)

RPD	Relative Percent Difference, a measure of the relative difference between two points

TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 890-4157-1

Job ID: 890-4157-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4157-1

Receipt

The sample was received on 2/20/2023 3:19 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: S-SW5.1 (890-4157-1).

GC VOA

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-46948 and analytical batch 880-46925 recovered outside control limits for the following analytes: Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene.

Method 8021B: Surrogate recovery for the following samples were outside control limits: S-SW5.1 (890-4157-1), (CCV 880-46925/20), (CCV 880-46925/33), (CCV 880-46925/51), (LCS 880-46948/1-A), (LCSD 880-46948/2-A), (880-25049-A-1-I), (880-25049-A-1-J MS) and (880-25049-A-1-K MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-47146 and analytical batch 880-47130 was outside the upper control limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Client Sample ID: S-SW5.1 Date Collected: 02/20/23 11:15

Date Received: 02/20/23 15:19

Sample Depth: 5'

Job ID: 890-4157-1

Lab Sample ID: 890-4157-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U *+	0.00202		mg/Kg		02/22/23 14:24	02/23/23 02:56	
Toluene	<0.00202	U *+	0.00202		mg/Kg		02/22/23 14:24	02/23/23 02:56	•
Ethylbenzene	<0.00202	U *+	0.00202		mg/Kg		02/22/23 14:24	02/23/23 02:56	
m-Xylene & p-Xylene	<0.00403	U *+	0.00403		mg/Kg		02/22/23 14:24	02/23/23 02:56	
o-Xylene	<0.00202	U *+	0.00202		mg/Kg		02/22/23 14:24	02/23/23 02:56	,
Xylenes, Total	<0.00403	U *+	0.00403		mg/Kg		02/22/23 14:24	02/23/23 02:56	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	191	S1+	70 - 130				02/22/23 14:24	02/23/23 02:56	
1,4-Difluorobenzene (Surr)	70		70 - 130				02/22/23 14:24	02/23/23 02:56	:
Method: TAL SOP Total BTEX - To	otal BTEX Cal	culation							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/23/23 12:26	-
Total TPH	<49.9	U	49.9		mg/Kg				
		. (220)	(00)		mg/rtg			02/27/23 12:20	
			• •	MO			D		
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Analyte Gasoline Range Organics		Qualifier	• •	MDL		<u>D</u>	Prepared 02/24/23 09:54		Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL	MDL	Unit	<u>D</u>		Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	02/24/23 09:54	Analyzed 02/24/23 13:13	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U U U	RL 49.9	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/24/23 09:54	Analyzed 02/24/23 13:13 02/24/23 13:13	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9 <49.9	Qualifier U U U	RL 49.9 49.9 49.9	MDL	Unit mg/Kg mg/Kg	<u> </u>	02/24/23 09:54 02/24/23 09:54 02/24/23 09:54	Analyzed 02/24/23 13:13 02/24/23 13:13 02/24/23 13:13	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9 <49.9 <49.9 <49.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80.9 <80	Qualifier U U U	49.9 49.9 49.9 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/24/23 09:54 02/24/23 09:54 02/24/23 09:54 Prepared	Analyzed 02/24/23 13:13 02/24/23 13:13 02/24/23 13:13 Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	Result <49.9 <49.9 <49.9 <49.9 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80.0 <80	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg	<u>D</u>	02/24/23 09:54 02/24/23 09:54 02/24/23 09:54 Prepared 02/24/23 09:54	Analyzed 02/24/23 13:13 02/24/23 13:13 02/24/23 13:13 Analyzed 02/24/23 13:13	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	02/24/23 09:54 02/24/23 09:54 02/24/23 09:54 Prepared 02/24/23 09:54	Analyzed 02/24/23 13:13 02/24/23 13:13 02/24/23 13:13 Analyzed 02/24/23 13:13	Dil Fac

Released to Imaging: 9/6/2023 7:24:24 AM

Surrogate Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 890-4157-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4157-1	S-SW5.1	191 S1+	70	
LCS 880-46948/1-A	Lab Control Sample	199 S1+	83	
LCSD 880-46948/2-A	Lab Control Sample Dup	197 S1+	82	
MB 880-46866/5-A	Method Blank	113	75	
MB 880-46948/5-A	Method Blank	125	71	

BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4157-1	S-SW5.1	88	85	
LCS 880-47146/2-A	Lab Control Sample	111	99	
LCSD 880-47146/3-A	Lab Control Sample Dup	114	104	
MB 880-47146/1-A	Method Blank	139 S1+	134 S1+	

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 890-4157-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-46866/5-A

Matrix: Solid

Analysis Batch: 46925

Client Sample ID: Method Blank

Prep Type: Total/NA

							Prep Batch	n: 46866	
MB	MB								
esult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
0200	П	0.00200		malka		02/21/23 14:31	02/22/23 11:37		

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/21/23 14:31	02/22/23 11:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/21/23 14:31	02/22/23 11:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	02/21/23 14:3	02/22/23 11:37	1
1.4-Difluorobenzene (Surr)	75		70 - 130	02/21/23 14:3	1 02/22/23 11:37	1

Lab Sample ID: MB 880-46948/5-A

Matrix: Solid

Analysis Batch: 46925

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46948

	1110	III.D							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/22/23 14:24	02/23/23 01:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/22/23 14:24	02/23/23 01:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/22/23 14:24	02/23/23 01:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/22/23 14:24	02/23/23 01:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/22/23 14:24	02/23/23 01:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/22/23 14:24	02/23/23 01:12	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	02/22/23 1	4:24	02/23/23 01:12	1
1,4-Difluorobenzene (Surr)	71		70 - 130	02/22/23 1	4:24	02/23/23 01:12	1

Lab Sample ID: LCS 880-46948/1-A

Matrix: Solid

o-Xylene

Analysis Batch: 46925

Client Sample ID: Lab Control Sample

70 - 130

Prep Type: Total/NA Prep Batch: 46948

Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1279 mg/Kg 128 70 - 130 Toluene 0.100 0.1292 mg/Kg 129 70 - 130 0.100 Ethylbenzene 0.1268 mg/Kg 127 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene 0.2592 mg/Kg 130

0.1242

LCCD LCCD

0.100

Cnika

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	199	S1+	70 - 130
1.4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: LCSD 880-46948/2-A

Released to Imaging: 9/6/2023 7:24:24 AM

Matrix: Solid

Analysis Batch: 46925

Client Sample ID: Lab	Control Sample Dup
	Dunn Times Tetal/NIA

124

mg/Kg

Prep Type: Total/NA

Prep Batch: 46948

	Spike	LCSD LCS				70 KeC		KPD	
Analyte	Added	Result Qua	alifier Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1457 *+	mg/Kg		146	70 - 130	13	35	

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Analysis Batch: 46925

Job ID: 890-4157-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-46948/2-A **Matrix: Solid**

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 46948

Spike	LCSD	LCSD				%Rec		RPD
Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
0.100	0.1491	*+	mg/Kg		149	70 - 130	14	35
0.100	0.1497	*+	mg/Kg		150	70 - 130	17	35
0.200	0.3065	*+	mg/Kg		153	70 - 130	17	35
0.100	0.1486	*+	mg/Kg		149	70 - 130	18	35
	Added 0.100 0.100 0.200	Added Result 0.100 0.1491 0.100 0.1497 0.200 0.3065	Added Result Qualifier 0.100 0.1491 *+ 0.100 0.1497 *+ 0.200 0.3065 *+	Added Result Qualifier Unit 0.100 0.1491 *+ mg/Kg 0.100 0.1497 *+ mg/Kg 0.200 0.3065 *+ mg/Kg	Added Result Qualifier Unit D 0.100 0.1491 *+ mg/Kg 0.100 0.1497 *+ mg/Kg 0.200 0.3065 *+ mg/Kg	Added Result Qualifier Unit Unit D %Rec 0.100 0.1491 *+ mg/Kg 149 0.100 0.1497 *+ mg/Kg 150 0.200 0.3065 *+ mg/Kg 153	Added Result Qualifier Unit D %Rec Limits 0.100 0.1491 *+ mg/Kg 149 70 - 130 0.100 0.1497 *+ mg/Kg 150 70 - 130 0.200 0.3065 *+ mg/Kg 153 70 - 130	Added Result Qualifier Unit D %Rec Limits RPD 0.100 0.1491 *+ mg/Kg 149 70 - 130 14 0.100 0.1497 *+ mg/Kg 150 70 - 130 17 0.200 0.3065 *+ mg/Kg 153 70 - 130 17

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	197	S1+	70 - 130
1,4-Difluorobenzene (Surr)	82		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-47146/1-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47146

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/24/23 08:14	02/24/23 08:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/24/23 08:14	02/24/23 08:40	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/24/23 08:14	02/24/23 08:40	1

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	139	S1+	70 - 130	02/24/23 08:14	02/24/23 08:40	1
o-Terphenyl	134	S1+	70 - 130	02/24/23 08:14	02/24/23 08:40	1

Lab Sample ID: LCS 880-47146/2-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47146

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	915.9		mg/Kg		92	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	925.7		mg/Kg		93	70 - 130	
C10-C28)								

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-47146/3-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47146

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	972.6		mg/Kg		97	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	957.1		mg/Kg		96	70 - 130	3	20
C10-C28)									

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 890-4157-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-47146/3-A

Matrix: Solid

Analysis Batch: 47130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Batch: 47146

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

LCSD LCSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 114 70 - 130 o-Terphenyl 104 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-46942/1-A

Matrix: Solid

Analysis Batch: 46978

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U 02/22/23 17:25 mg/Kg

Lab Sample ID: LCS 880-46942/2-A

Matrix: Solid

Analysis Batch: 46978

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 242.9 97 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-46942/3-A

Matrix: Solid

Analysis Batch: 46978

RPD Spike LCSD LCSD %Rec Analyte Added Result Qualifier %Rec Limits RPD Limit Unit Chloride 250 274.3 110 90 - 110 12 20 mg/Kg

Eurofins Carlsbad

Released to Imaging: 9/6/2023 7:24:24 AM

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 890-4157-1

GC VOA

Prep Batch: 46866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-46866/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 46925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4157-1	S-SW5.1	Total/NA	Solid	8021B	46948
MB 880-46866/5-A	Method Blank	Total/NA	Solid	8021B	46866
MB 880-46948/5-A	Method Blank	Total/NA	Solid	8021B	46948
LCS 880-46948/1-A	Lab Control Sample	Total/NA	Solid	8021B	46948
LCSD 880-46948/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	46948

Prep Batch: 46948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4157-1	S-SW5.1	Total/NA	Solid	5035	
MB 880-46948/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-46948/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-46948/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 47061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4157-1	S-SW5.1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47130

Lab Sample	ID Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4157-1	S-SW5.1	Total/NA	Solid	8015B NM	47146
MB 880-471	46/1-A Method Blank	Total/NA	Solid	8015B NM	47146
LCS 880-47	146/2-A Lab Control Sample	Total/NA	Solid	8015B NM	47146
LCSD 880-4	7146/3-A Lab Control Sample Dup	Total/NA	Solid	8015B NM	47146

Prep Batch: 47146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4157-1	S-SW5.1	Total/NA	Solid	8015NM Prep	
MB 880-47146/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47146/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47146/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4157-1	S-SW5.1	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 46942

Lab Sample ID 890-4157-1	S-SW5.1	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-46942/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-46942/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-46942/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 890-4157-1

HPLC/IC

Analysis Batch: 46978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4157-1	S-SW5.1	Soluble	Solid	300.0	46942
MB 880-46942/1-A	Method Blank	Soluble	Solid	300.0	46942
LCS 880-46942/2-A	Lab Control Sample	Soluble	Solid	300.0	46942
LCSD 880-46942/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	46942

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Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Lab Sample ID: 890-4157-1

Job ID: 890-4157-1

Matrix: Solid

Client Sample ID: S-SW5.1

Date Collected: 02/20/23 11:15 Date Received: 02/20/23 15:19

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	46948	02/22/23 14:24	EL	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	46925	02/23/23 02:56	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47061	02/23/23 12:26	AJ	EET MID
Total/NA	Analysis	8015 NM		1			47315	02/27/23 12:20	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	47146	02/24/23 09:54	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47130	02/24/23 13:13	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	46942	02/22/23 11:54	KS	EET MID
Soluble	Analysis	300.0		1			46978	02/22/23 18:38	CH	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 890-4157-1

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date		
Texas	NE	ELAP	T104704400-22-25	06-30-23		
The following analytes the agency does not of		it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes fo		
Analysis Method	Doors Made and	Matrix				
/ triary 515 IVICTIO	Prep Method	Maurx	Analyte			
8015 NM	Ргер метпоа	Solid	Analyte Total TPH			

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Method Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 890-4157-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Sample Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 890-4157-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4157-1	S-SW5.1	Solid	02/20/23 11:15	02/20/23 15:19	5'

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Projec	Location	45:	18 W.	Pierc	e St Carlsbad NM, 88		Phone: Contact: SRS #:							Method 300)	15	BTEX (EPA Method 8021B)				
	ler's Name t Number	Tran	2,5		Project Name		Sampler's	Signat	ture	No. T	ype of	Contai	iners	PA Me	TPH Extended 8015	Metho				
	.t Number	r	10		Crettys but	9 7.	Thorn	1 =	: -					Chloride (EPA	Extend	(EPA				
Matrix	Date	Time	Comp	Grab	Identifying M		ole(s)		End	4 oz Glass	2 oz Glass	250 r	5						Lab Sample ID	
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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 890-4157-1

Login Number: 4157 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists Job Number: 890-4157-1

Login Number: 4157 **List Source: Eurofins Midland** List Number: 2 List Creation: 02/22/23 12:07 PM

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock 6701 Aberdeen Ave. Suite 8

Lubbock, TX 79424 Tel: (806)794-1296

Laboratory Job ID: 820-5375-1

Laboratory Sample Delivery Group: AR227018

Client Project/Site: Gettysburg Tinhorn

For:

Terracon Consulting Eng & Scientists 5847 50th St Lubbock, Texas 79424

Attn: Joseph Guesnier

MAMER

Authorized for release by: 8/22/2022 4:10:27 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

..... LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env
Released to Imaging: 9/6/2023 7:24:24 AM

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Laboratory Job ID: 820-5375-1 SDG: AR227018

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015 VL = field staff performs tests under NJ State certification #06005 WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

- · Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- · The report shall not be reproduced, except in full, without the written consent of the laboratory
- · All samples are collected as "grab" samples unless otherwise identified.
- · Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- · Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.
- · Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.
- The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).

Jessica Kramer

Project Manager

8/22/2022 4:10:27 PM

RAMER

Client: Terracon Consulting Eng & Scientists Project/Site: Gettysburg Tinhorn

Laboratory Job ID: 820-5375-1 SDG: AR227018

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Definitions/Glossary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5375-1 Project/Site: Gettysburg Tinhorn SDG: AR227018

Qualifiers

HPLC/IC

Qualifier **Qualifier Description** MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. F2 MS/MSD RPD exceeds control limits U Indicates the analyte was analyzed for but not detected.

Glossary

MDA

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis %R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) DER Dil Fac **Dilution Factor** DL Detection Limit (DoD/DOE) DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level"

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit MLMinimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) TFO

TNTC Too Numerous To Count

Released to Imaging: 9/6/2023 7:24:24 AM

Eurofins Lubbock

Case Narrative

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5375-1 Project/Site: Gettysburg Tinhorn SDG: AR227018

Job ID: 820-5375-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-5375-1

Receipt

The samples were received on 8/11/2022 4:52 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.2°C

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-65708 and analytical batch 860-65567 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Project/Site: Gettysburg Tinhorn

Client: Terracon Consulting Eng & Scientists

Client Sample ID: BH-1 (0-0.5)
Date Collected: 08/11/22 11:05
Date Received: 08/11/22 16:52

Lab Sample ID: 820-5375-1

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography

Client Sample ID: BH-1 (0.5-1)

Date Collected: 08/11/22 11:10

Lab Sample ID: 820-5375-2

Matrix: Solid

Date Collected: 08/11/22 11:10 Date Received: 08/11/22 16:52

Method: 300.0 - Anions, Ion Chromatography Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 10.0 08/18/22 22:18 08/19/22 01:02 Chloride 436 mg/Kg

Client Sample ID: BH-1 (1-2)

Lab Sample ID: 820-5375-3

Date Collected: 08/11/22 11:15 Date Received: 08/11/22 16:52

Method: 300.0 - Anions, Ion Chromatography Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 3810 9.90 08/18/22 22:18 08/19/22 01:38 mg/Kg

Client Sample ID: BH-1 (3.5-4)

Lab Sample ID: 820-5375-4

Date Collected: 08/11/22 11:20 Date Received: 08/11/22 16:52

Method: 300.0 - Anions, Ion Chromatography Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 10.0 08/18/22 22:18 08/19/22 01:49 Chloride 1960 mg/Kg

Client Sample ID: BH-1 (4.5-5)

Lab Sample ID: 820-5375-5

Date Collected: 08/11/22 11:25 Date Received: 08/11/22 16:52

 Method: 300.0 - Anions, Ion Chromatography

 Analyte
 Result
 Qualifier
 RL
 MDL
 Unit
 D
 Prepared
 Analyzed
 Dil Factoride

 Chloride
 112
 9.92
 mg/Kg
 08/18/22 22:18
 08/19/22 02:25
 1

Client Sample ID: BH-2 (0-0.5)

Date Collected: 08/11/22 11:50

Lab Sample ID: 820-5375-7

Matrix: Solid

Date Collected: 08/11/22 11:50 Date Received: 08/11/22 16:52

Method: 300.0 - Anions, Ion Chromatography Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 9.98 08/18/22 22:18 08/19/22 02:49 Chloride mg/Kg 82.9

Client Sample ID: BH-2 (0.5-1)

Lab Sample ID: 820-5375-8

Date Collected: 08/11/22 11:55 Date Received: 08/11/22 16:52

Method: 300.0 - Anions, Ion Chromatography Analyte Qualifier Result RL MDL Unit D Prepared Analyzed Dil Fac Chloride 1430 10.0 08/18/22 22:18 08/19/22 03:00 mg/Kg

Eurofins Lubbock

Matrix: Solid

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-5375-1 SDG: AR227018

Client Sample ID: BH-2 (1-2)

Date Collected: 08/11/22 12:00 Date Received: 08/11/22 16:52

Lab Sample ID: 820-5375-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatogra

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4810	10.1	mg/Kg		08/18/22 22:18	08/19/22 03:12	1

Client Sample ID: BH-2 (3.5-4)

Date Collected: 08/11/22 12:05

Date Received: 08/11/22 16:52

Lah	Sample	ID:	220	5375	10

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography Analyte

Result Qualifier RL MDL Unit Dil Fac D Prepared Analyzed Chloride 100 08/18/22 22:18 08/19/22 17:03 5550 10 mg/Kg

Client Sample ID: BH-2 (4.5-5)

Date Collected: 08/11/22 12:10

Date Received: 08/11/22 16:52

Lab Sample ID: 820-5375-11

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Chloride 9.96 08/18/22 22:18 08/19/22 04:00 3770 mg/Kg

Client Sample ID: BH-3 (0-0.5)

Date Collected: 08/11/22 12:30

Date Received: 08/11/22 16:52

Lab Sample ID: 820-5375-13

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result Qualifie		MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	949	10.1	mg/K	g	08/18/22 22:18	08/19/22 04:23	1

Client Sample ID: BH-3 (0.5-1)

Date Collected: 08/11/22 12:35

Date Received: 08/11/22 16:52

Lab Sample ID: 820-5375-14

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL Un	it	D	Prepared	Analyzed	Dil Fac
Chloride	3760	F2	10.1	mg	/Ka		08/18/22 22:18	08/19/22 04:35	1

Client Sample ID: BH-3 (1-2)

Date Collected: 08/11/22 12:40

Date Received: 08/11/22 16:52

Lab Sample ID: 820-5375-15

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL Ur	nit D	Prepared	Analyzed	Dil Fac
Chloride	4640		10.0	;	g/Kg	08/18/22 22:18	08/19/22 05:11	1

Client Sample ID: BH-3 (3.5-4)

Lab Sample ID: 820-5375-16

Date Collected: 08/11/22 12:45 Date Received: 08/11/22 16:52

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography

Analyte		ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2170	10.1	mg/Kg		08/18/22 22:18	08/19/22 05:22	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-5375-1 SDG: AR227018

Client Sample ID: BH-3 (4.5-5)

Date Collected: 08/11/22 12:50

Lab Sai

Lab Sample ID: 820-5375-17 Matrix: Solid

Date Received: 08/11/22 16:52

Method: 300.0 - Anions, Ion Chrom	atography									
Analyte	Result	Qualifier	RL	MDL	Unit	ļ	D	Prepared	Analyzed	Dil Fac
Chloride	152		9.94		mg/Kg			08/18/22 22:18	08/19/22 05:34	1

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

%Rec

Limits

Client Sample ID: Lab Control Sample Dup

80 - 120

%Rec

Limits

80 - 120

%Rec

Limits

80 - 120

Limits

80 - 120

Limits

80 - 120

%Rec

Client Sample ID: BH-1 (3.5-4)

Client Sample ID: BH-1 (3.5-4)

Client Sample ID: BH-3 (0.5-1)

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 65708

RPD

Prep Type: Total/NA

Prep Type: Total/NA Prep Batch: 65708

RPD

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 65708

Prep Batch: 65708

Prep Batch: 65708

Prep Batch: 65708

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5375-1 Project/Site: Gettysburg Tinhorn SDG: AR227018

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-65708/1-A

Matrix: Solid

Analysis Batch: 65567 Prep Batch: 65708 MB MB Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 mg/Kg 08/18/22 22:18 08/18/22 23:51

LCS LCS

LCSD LCSD

MS MS

MSD MSD

MS MS

Qualifier

Result

3715 4

2004 4

Result Qualifier

2033

Result Qualifier

Qualifier

Qualifier

Unit

Unit

Unit

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

D

%Rec

%Rec

%Rec

%Rec

%Rec

-44

41

101

102

Result

101.5

Result

101.4

Spike

Added

Spike

Added

Spike Added

101

Spike

Added

99.8

Spike

Added

99.2

100

100

Lab Sample ID: LCS 860-65708/2-A

Matrix: Solid

Analysis Batch: 65567

Analyte

Chloride

Lab Sample ID: LCSD 860-65708/3-A **Matrix: Solid**

Analysis Batch: 65567

Analyte Chloride

Lab Sample ID: 820-5375-4 MS

Matrix: Solid

Analysis Batch: 65567

Analyte Chloride

Lab Sample ID: 820-5375-4 MSD

Matrix: Solid

Analysis Batch: 65567

Analyte

Chloride Lab Sample ID: 820-5375-14 MS

Matrix: Solid Analysis Batch: 65567

Chloride

Lab Sample ID: 820-5375-14 MSD

Matrix: Solid

Analyte

Analysis Batch: 65567

Sample Sample Analyte

Result Qualifier Chloride

3760 F2

Added 99.2

Sample Sample

Sample Sample

Sample Sample

3760 F2

Result Qualifier

Result

1960

Qualifier

Qualifier

Result

1960

Spike 2187

MSD MSD Result Qualifier 4 F2

Unit mg/Kg

D

%Rec -1584

Limits 80 - 120

RPD

Client Sample ID: BH-3 (0.5-1)

Eurofins Lubbock

RPD

Limit

RPD

Limit

RPD

Limit

QC Association Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-5375-1 SDG: AR227018

HPLC/IC

Analysis Batch: 65567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5375-1	BH-1 (0-0.5)	Total/NA	Solid	300.0	65708
820-5375-2	BH-1 (0.5-1)	Total/NA	Solid	300.0	65708
820-5375-3	BH-1 (1-2)	Total/NA	Solid	300.0	65708
820-5375-4	BH-1 (3.5-4)	Total/NA	Solid	300.0	65708
820-5375-5	BH-1 (4.5-5)	Total/NA	Solid	300.0	65708
820-5375-7	BH-2 (0-0.5)	Total/NA	Solid	300.0	65708
820-5375-8	BH-2 (0.5-1)	Total/NA	Solid	300.0	65708
820-5375-9	BH-2 (1-2)	Total/NA	Solid	300.0	65708
820-5375-11	BH-2 (4.5-5)	Total/NA	Solid	300.0	65708
820-5375-13	BH-3 (0-0.5)	Total/NA	Solid	300.0	65708
820-5375-14	BH-3 (0.5-1)	Total/NA	Solid	300.0	65708
820-5375-15	BH-3 (1-2)	Total/NA	Solid	300.0	65708
820-5375-16	BH-3 (3.5-4)	Total/NA	Solid	300.0	65708
820-5375-17	BH-3 (4.5-5)	Total/NA	Solid	300.0	65708
MB 860-65708/1-A	Method Blank	Total/NA	Solid	300.0	65708
LCS 860-65708/2-A	Lab Control Sample	Total/NA	Solid	300.0	65708
LCSD 860-65708/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	65708
820-5375-4 MS	BH-1 (3.5-4)	Total/NA	Solid	300.0	65708
820-5375-4 MSD	BH-1 (3.5-4)	Total/NA	Solid	300.0	65708
820-5375-14 MS	BH-3 (0.5-1)	Total/NA	Solid	300.0	65708
820-5375-14 MSD	BH-3 (0.5-1)	Total/NA	Solid	300.0	65708

Prep Batch: 65708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
820-5375-1	BH-1 (0-0.5)	Total/NA	Solid	300_Prep	
820-5375-2	BH-1 (0.5-1)	Total/NA	Solid	300_Prep	
820-5375-3	BH-1 (1-2)	Total/NA	Solid	300_Prep	
820-5375-4	BH-1 (3.5-4)	Total/NA	Solid	300_Prep	
820-5375-5	BH-1 (4.5-5)	Total/NA	Solid	300_Prep	
820-5375-7	BH-2 (0-0.5)	Total/NA	Solid	300_Prep	
820-5375-8	BH-2 (0.5-1)	Total/NA	Solid	300_Prep	
820-5375-9	BH-2 (1-2)	Total/NA	Solid	300_Prep	
820-5375-10	BH-2 (3.5-4)	Total/NA	Solid	300_Prep	
820-5375-11	BH-2 (4.5-5)	Total/NA	Solid	300_Prep	
820-5375-13	BH-3 (0-0.5)	Total/NA	Solid	300_Prep	
820-5375-14	BH-3 (0.5-1)	Total/NA	Solid	300_Prep	
820-5375-15	BH-3 (1-2)	Total/NA	Solid	300_Prep	
820-5375-16	BH-3 (3.5-4)	Total/NA	Solid	300_Prep	
820-5375-17	BH-3 (4.5-5)	Total/NA	Solid	300_Prep	
MB 860-65708/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-65708/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-65708/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
820-5375-4 MS	BH-1 (3.5-4)	Total/NA	Solid	300_Prep	
820-5375-4 MSD	BH-1 (3.5-4)	Total/NA	Solid	300_Prep	
820-5375-14 MS	BH-3 (0.5-1)	Total/NA	Solid	300_Prep	
820-5375-14 MSD	BH-3 (0.5-1)	Total/NA	Solid	300_Prep	

Analysis Batch: 65815

Г					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5375-10	BH-2 (3.5-4)	Total/NA	Solid	300.0	65708

Eurofins Lubbock

Released to Imaging: 9/6/2023 7:24:24 AM

Client Sample ID: BH-1 (0-0.5)

Date Collected: 08/11/22 11:05 Date Received: 08/11/22 16:52

Project/Site: Gettysburg Tinhorn

Lab Sample ID: 820-5375-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.97 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1			65567	08/19/22 00:50	RBNS	EET HOU

Client Sample ID: BH-1 (0.5-1)

Lab Sample ID: 820-5375-2

Date Collected: 08/11/22 11:10
Date Received: 08/11/22 16:52

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.99 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1			65567	08/19/22 01:02	RBNS	EET HOU

Client Sample ID: BH-1 (1-2)

Lab Sample ID: 820-5375-3

Date Collected: 08/11/22 11:15 Matrix: Solid

Date Received: 08/11/22 16:52

Batch Dil Batch Initial Final Batch Prepared Prep Type Method Factor Number or Analyzed Type Run Amount Amount Analyst Lab Total/NA Prep 300 Prep 5.05 g 50 mL 65708 08/18/22 22:18 **RBNS EET HOU** Total/NA 08/19/22 01:38 **RBNS EET HOU** 300.0 65567 Analysis 1

Client Sample ID: BH-1 (3.5-4)

Lab Sample ID: 820-5375-4

Date Collected: 08/11/22 11:20 Matrix: Solid

Date Received: 08/11/22 16:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.98 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1			65567	08/19/22 01:49	RBNS	EET HOU

Client Sample ID: BH-1 (4.5-5)

Date Collected: 08/11/22 11:25

Lab Sample ID: 820-5375-5

Matrix: Solid

Date Collected: 08/11/22 11:25 Date Received: 08/11/22 16:52

Analysis

300.0

Total/NA

Batch Batch Dil Initial Final Batch Prepared Method **Prep Type** Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 300 Prep 5.04 g 50 mL 65708 08/18/22 22:18 **RBNS** EET HOU

Client Sample ID: BH-2 (0-0.5)

Lab Sample ID: 820-5375-7

1

65567

08/19/22 02:25

RBNS

Date Collected: 08/11/22 11:50 Matrix: Solid
Date Received: 08/11/22 16:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.01 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1			65567	08/19/22 02:49	RBNS	EET HOU

Eurofins Lubbock

EET HOU

Client Sample ID: BH-2 (0.5-1)

Date Collected: 08/11/22 11:55 Date Received: 08/11/22 16:52

Lab Sample ID: 820-5375-8

Matrix: Solid

	I	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep 1	Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/N	NA F	Prep	300_Prep			5.00 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/N	NA A	Analysis	300.0		1			65567	08/19/22 03:00	RBNS	EET HOU

Client Sample ID: BH-2 (1-2)

Date Collected: 08/11/22 12:00

Date Received: 08/11/22 16:52

Lab Sam	ple ID:	820-5375-9
19/22 03:00	KDINO	EETHOU

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.95 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1			65567	08/19/22 03:12	RBNS	EET HOU

Client Sample ID: BH-2 (3.5-4)

Date Collected: 08/11/22 12:05

Date Received: 08/11/22 16:52

Lab Sample ID: 820-5375-10

Matrix: Solid

Batch Batch Dil Batch Initial Final Prepared Prep Type Method Number or Analyzed Type Run Factor Amount Amount Analyst Lab Total/NA Prep 300 Prep 4.98 g 50 mL 65708 08/18/22 22:18 **RBNS EET HOU** Total/NA Analysis 08/19/22 17:03 **RBNS** 300.0 65815 10 **EET HOU**

Client Sample ID: BH-2 (4.5-5)

Date Collected: 08/11/22 12:10

Date Received: 08/11/22 16:52

ab Sampl	e ID: 8	20-537	'5-11
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Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.02 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1			65567	08/19/22 04:00	RBNS	EET HOU

Client Sample ID: BH-3 (0-0.5)

Date Collected: 08/11/22 12:30

Date Received: 08/11/22 16:52

Lab Sample I	D: 820-5375-13
	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.96 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1	0 mL	1.0 mL	65567	08/19/22 04:23	RBNS	EET HOU

Date Collected: 08/11/22 12:35

Date Received: 08/11/22 16:52

Client Sample	ID: BH-3 (0.5-1)					Lab Samp	le ID: 82	0-5375-14	
Total/NA	Analysis	300.0	1	0 mL	1.0 mL	65567	08/19/22 04:23	RBNS	EET HOU	
Total/NA	Prep	300_Prep	 	4.96 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU	

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 300_Prep Total/NA Prep 4.95 g 50 mL 65708 08/18/22 22:18 **RBNS** EET HOU Total/NA 300.0 0 mL 65567 **RBNS** Analysis 1.0 mL 08/19/22 04:35 **EET HOU**

Eurofins Lubbock

Matrix: Solid

Lab Chronicle

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-5375-1 SDG: AR227018

Client Sample ID: BH-3 (1-2)

Lab Sample ID: 820-5375-15

Matrix: Solid

Date Collected: 08/11/22 12:40 Date Received: 08/11/22 16:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.99 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1			65567	08/19/22 05:11	RBNS	EET HOU

Client Sample ID: BH-3 (3.5-4)

Lab Sample ID: 820-5375-16

Date Collected: 08/11/22 12:45

Matrix: Solid

Date Received: 08/11/22 16:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.95 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1			65567	08/19/22 05:22	RBNS	EET HOU

Client Sample ID: BH-3 (4.5-5)

Lab Sample ID: 820-5375-17

Date Collected: 08/11/22 12:50 Matrix: Solid

Date Received: 08/11/22 16:52

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			5.03 g	50 mL	65708	08/18/22 22:18	RBNS	EET HOU
Total/NA	Analysis	300.0		1			65567	08/19/22 05:34	RBNS	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists

Job ID: 820-5375-1 Project/Site: Gettysburg Tinhorn SDG: AR227018

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-47	06-30-23

Method Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-5375-1 SDG: AR227018

 Method
 Method Description
 Protocol
 Laboratory

 300.0
 Anions, Ion Chromatography
 MCAWW
 EET HOU

 300_Prep
 Anions, Ion Chromatography, 10% Wt/Vol
 MCAWW
 EET HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

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Sample Summary

Client: Terracon Consulting Eng & Scientists

Project/Site: Gettysburg Tinhorn

Job ID: 820-5375-1 SDG: AR227018

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-5375-1	BH-1 (0-0.5)	Solid	08/11/22 11:05	08/11/22 16:52
820-5375-2	BH-1 (0.5-1)	Solid	08/11/22 11:10	08/11/22 16:52
820-5375-3	BH-1 (1-2)	Solid	08/11/22 11:15	08/11/22 16:52
820-5375-4	BH-1 (3.5-4)	Solid	08/11/22 11:20	08/11/22 16:52
820-5375-5	BH-1 (4.5-5)	Solid	08/11/22 11:25	08/11/22 16:52
820-5375-7	BH-2 (0-0.5)	Solid	08/11/22 11:50	08/11/22 16:52
820-5375-8	BH-2 (0.5-1)	Solid	08/11/22 11:55	08/11/22 16:52
820-5375-9	BH-2 (1-2)	Solid	08/11/22 12:00	08/11/22 16:52
820-5375-10	BH-2 (3.5-4)	Solid	08/11/22 12:05	08/11/22 16:52
820-5375-11	BH-2 (4.5-5)	Solid	08/11/22 12:10	08/11/22 16:52
820-5375-13	BH-3 (0-0.5)	Solid	08/11/22 12:30	08/11/22 16:52
820-5375-14	BH-3 (0.5-1)	Solid	08/11/22 12:35	08/11/22 16:52
820-5375-15	BH-3 (1-2)	Solid	08/11/22 12:40	08/11/22 16:52
820-5375-16	BH-3 (3.5-4)	Solid	08/11/22 12:45	08/11/22 16:52
820-5375-17	BH-3 (4.5-5)	Solid	08/11/22 12:50	08/11/22 16:52

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Received by OCD: 6/8/2023 12:00:33 AM

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							Laboratory:	Xenc	0				A	ANAL	YSIS					LAB USE ONLY			
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Dro	ject Manager		Gues	nier			SRS #:													Fag	ge of		
-	pler's Name		. Wo	_	-		Sampler's Sig	nature	2	_	1			300)									
							Sampler's Sig	6	- /	Tak	M	/		Method									
Pro	ject Number			=	F	roject Name				No. T	ype of	Containe	ers	Met									
		R227018				Gettysburg Tin	horn			S	S	ГТ		(EPA									
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Matrix	Date	Time		Comp	Grab	Identifying Marks of Samp	ole(s)	Start De	End Dep	4 02	2 oz	250 ml Poly		Chloride (PIOH					Lal	b Sample ID		
s	8/11/2022	11:05	T		x	BH-1 (0-0.5)		0	0.5	х				х									
s	8/11/2022	11:10			х	BH-1 (0.5-1)		0.5	1'	х				х									
s	8/11/2022	11:15			Х	BH-1 (1-2)		1'	2'	Х				х									
s	8/11/2022	11:20			х	BH-1 (3.5-4)		3.5'	4'	Х				х									
s	8/11/2022	11:25			Х	BH-1 (4.5-5)		4.5	5'	Х					х								
s	8/11/2022	11:30			Х	BH-1 (5.5-6)		5.5	6'	Х					х								
s	8/11/2022	11:50			x	BH-2 (0-0.5)		0	0.5'	х				х									
s	8/11/2022	11:55			x	BH-2 (0.5-1)		0.5	1'	х	_	ĺ		х					\perp				
S	8/11/2022	12:00			х	BH-2 (1-2)		1'	2'	х				х				\perp					
s	8/11/2022	12:05		\perp	X	BH-2 (3.5-4)		3.5'	4'	Х				х				_					
s_	8/11/2022	12:10			x	BH-2 (4.5-5)		4.5'	5'	х					Х			\perp	\perp			,	
5	8/11/2022	12:15		_	X	BH-2 (5.5-6)		5.5'	6'	х		\sqcup			Х				\perp				
s_	8/11/2022	12:30		\perp	X	BH-3 (0-0.5)		0	0.5	х			_	х				\perp					
s	8/11/2022	12:35		_	×	BH-3 (0.5-1)		0.5'	1'	Х			_	х									
s	8/11/2022	12:40		_	х	BH-3 (1-2)		1'	2'	Х	_			х			\perp	_					
s_	8/11/2022	12:45	\perp	4	×	BH-3 (3.5-4)		3.5'	4'	х	<u></u>	\sqcup		х			_		_				
s_	8/11/2022	12:50	\perp	4	Х	BH-3 (4.5-5)		4.5'	5'	X				_	Х		\perp						
S	8/11/2022	12:55	1	4	X	BH-3 (5.5-6)		5.5'	6'	х				_	Х			1					
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	VAROUND TIME			_		ormal 48-Hour Rush	24-Hour Rush Received by (Signature		TRRP	Labor	ratory	Review	/ Check	dist		DILL Y		□ N		D-F W-I-)			
Kennq	austo	Celler	1	/		8-11-22 4:52pm	Hoelut	300	. ^			8(6)	22 1	165	2	BIII 10: :	Solaris	IVIIds	ream (Rob Kirk)			
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Relinqu	ulshed by (Signature)		_	-		Date: Time:	Received by (Signature)				Date:	- 10	lme:			du	SUII.V	oriey(vierracon.com			

Lubbock Office # 5827 50th Street, Suite 1 # Lubbock, Texas 79424 # 806-300-0140

Responsive - Resourceful - Reliable

Eurofins Lubbock Temp: IR ID:HOU-338 6701 Aberdeen Ave. Suite C/F:+1.4 Lubbock, TX 79424 Phone: 806-794-1296 IR ID:HOU-338 Corrected Temp:

Chain of Custody Record

820-5375 Chain of Custody

OTINS	Environment Testin
	America

6701 Aberdeen Ave. Suite C/F·+1.4 Lubbock, TX 79424 Phone: 806-794-1296	-338 Chair	of Custody	Record						ofins	Environment Testing America
Client Information (Sub Contract Lab)	Sampler		ab PM: Kramer Jessica		820-53	75 Chain of C	ustody		FQ 1	
Client Contact Client Contact	Рпопе:		-Mail:		~	State of C	Origin:	jrage.	59.1	
Shipping/Receiving		<u>_</u> <u>_</u>	lessica.Kramer(Texas			1 of 2	
Company: Eurofins Environment Testing South Centr			Accreditations NELAP To	Required (So exas	ee note):			Job #: 820-5	375-1	
Address:	Due Date Requested:			·	A - a l - a l		.1		rvation Cod	des:
4145 Greenbriar Dr City:	8/15/2022 TAT Requested (days):		序段 級融	 -	Analysi	s Requeste	<u>a </u>	A HO		M Hexane N None
Stafford	,, , , , , , , , , , , , , , , , , , ,			1 1				B Na	iOH Acetate	O AsNaO2 P Na2O4S
tate, Zip: "X, 77477				1				D Ni	iric Acid iHSO4	Q Ne2SO3 R Na2S2O3
Phone:	PO#:				1 1			F Me	OH nchlor	S H2SO4
81-240-4200(Tel) mait:	WO#:		≘]] }]]				corbic Acid	T TSP Dodecahydrate U Acetone
neu.	WO#.		Tron IV ()			1 1		J DI	Water	V MCAA W pH4-5
roject Name:	Ртојест#:							K EC		Y Trizma
Settysburg Tinhom	82000340 ssow#:		- 3 5					Other		Z other (specify)
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ample Identification - Client ID (Lab ID)	Sample Date Time	G=grab) BT=Tisaus, A	PAIr) R R R						Special In	structions/Note:
H-1 (0-0.5) (820-5375-1)	8/11/22 11:05 Centra	1 3000							A CONTRACTOR OF THE PARTY OF TH	
H-1 (0.5-1) (820-5375-2)	8/11/22 11 10 Centra	Solic	X							
H-1 (1-2) (820-5375-3)	8/11/22 Centra	Solic	X			 	 			
H-1 (3.5-4) (820-5375-4)	8/11/22 11,20 Centra	Solic	х							
H-2 (0-0.5) (820-5375-7)	8/11/22 11:50 Centra	I SOUC	Х							
H-2 (0 5-1) (820-5375-8)	8/11/22 11.55 Centra	Solic	х							
H-2 (1-2) (820-5375-9)	8/11/22 12:00 Centra	1 5000	X							· · · · · · · · · · · · · · · · · · ·
H-2 (3.5-4) (820-5375-10)	8/11/22 12:05 Centra	Solic	х							
H-3 (0-0.5) (820-5375-13)	8/11/22 12:30 Centra	1 3000	Х							
ote: Since laboratory accreditations are subject to change, Eurofins Env boratory does not currently maintain accreditation in the State of Origin coreditation status should be brought to Eurofins Environment Testing S	listed above for analysis/tests/matrix bein	ig analyzed, the samples mu	st be shipped back	to the Eurofin	s Environmer	it Testing South Co	entral, LLC laborat	ory or other instruct	ions will be p	rovided. Any changes to
ossible Hazard Identification						y be assesse	d if samples a	re retained ion	ger than 1	
Inconfirmed eliverable Requested:	Primary Deliverable Ran	<u></u>		eturn To C		Disposal	By Lab	Archive Fo)r	Months
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elinquished by:	Date/Time;	Company	Rece	ived by:		•	Date/Time	: :		Company
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Δ Yes Δ No										

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Eurofins	Lubbock
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6701 Aberdeen Ave. Suite Temp: Lubbock, TX 79424 Phone: 806-794-1296 Corrected Temp. 1R ID HOU-338 Corrected Temp.		Chain (of Cus	stody R	eco	ord										🔅 eurofins	Environment Testing America
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Company:	<u> </u>			Jess	Асстес	ditations	Require				116.	<u> </u>				Page 2 of 2 Job #:	
Eurofins Environment Testing South Centr Address:	Due Date Requests	ed:			NEL	AP T	exas									820-5375-1 Preservation Co	
4145 Greenbriar Dr City:	8/15/2022						, , , , , , , , , , , , , , , , , , ,	A	naly	sis R	eque	sted				A HCL	M Hexane
Stafford	TAT Requested (da	ays):]	1 1			1 1				B NaOH	N None O AsNaO2
State, Zip: TX, 77477	1				H.											D Nitric Acid	P Na2O4S Q Na2SO3
Phone:	PO#:		-													F MeOH G Amchlor	R Na2S2O3 S H2SO4
281-240-4200(Tel) Email:	WO#.	=			g.	₽]							H Ascorbic Acid	T TSP Dodecahydrate U Acetone
		_				Chloride			1		1					J DI Water	V MCAA W pH 4-5
Project Name: Gettysburg Tinhorn	Project #: 82000340				19.4											K EDTA L EDA	Y Trizma Z other (specify)
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		Sample	Sample Type (C=comp,	Matrix (Wawater Sasolid, O=waste/oil	JOBERNIO PRESIDENCIALISMOS SERVITAS	300_ORGFM_28D/300_Prep		•			·						
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab)	BT=Titaue, A=Air)				56 SE						70 ES		Special I	nstructions/Note
BH-3 (0.5-1) (820-5375-14)	8/11/22	12:35	***********	Solid		X	3001.20			**************************************			CANADA S				
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BH-3 (3.5-4) (820-5375-16)	 	Central 12:45	<u> </u>		H	+			+		┿-	\dashv			-	<u> </u>	
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Note: Since laboratory accreditations are subject to change, Eurofins Environmen laboratory does not currently maintain accreditation in the State of Origin listed at accreditation status should be brought to Eurofins Environment Testing South Ce	ove for analysis/facts	Imatriu haina a	nahaad the c	amalac muct be	shippe curren	d back nt to dat	to the Eur e, return i	rofins E the sign	nvironm ned Cha	ent Test in of Cus	ting Sou stody at	uth Cent testing t	trai, LLC to said d	labora omplic	atory or o ance to E	ther instructions will be p Eurofins Environment Te	provided. Any changes to esting South Central, LLC.
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After printing this label

Use the 'Print' button on this page to print your label to your laser or inkjet printer

2. Fold the printed page along the horizontal line.

3 Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned

PRIORITY OVERNIGHT

SATURDAY 12:00P

Warning IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST.

At the end of each shipping day you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button If required print the pickup manifest that appears A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff available upon request. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss damage, delay non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual ioss and file a timely claim. Limitations, including limitations on our liability can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special, incidental, or consequential damages, including, without limitation, loss of profit, loss to the intrinsic value of the package, loss of sale interest income or attorney's fees. Recovery cannot exceed actual documented loss, Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff. Written claims must be filed within strict time limits see current FedEx Service Guide.

Page 20 of 23

8/22/2022

591J2/F39D/FE2D

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2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned

PRIORITY OVERNIGHT

SATURDAY 12:00P

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Warning IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST:

SN-XL

At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground if you are dropping your packages off at a FedEx drop off location, the manifest is not required.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff available upon request. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage delay non-delivery, misdelivery, or misinformation unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim Limitations, including limitations on our liability can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special incidental, or consequential damages, including, without limitation loss of profit, loss to the intrinsic value of the package, loss of sale, interest income or attorney's fees Recovery cannot exceed actual documented loss. Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff Written claims must be filed within strict time limits see current FedEx Service Guide

Page 21 of 23

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12

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Jo

Job Number: 820-5375-1 SDG Number: AR227018

Login Number: 5375 List Source: Eurofins Lubbock

List Number: 1

Creator: Ruggles, Ashley

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

4

8/22/2022

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5375-1

SDG Number: AR227018

List Source: Eurofins Houston

List Creation: 08/13/22 02:44 PM

Login Number: 5375 List Number: 2

Creator: Torres, Sandra
Question

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Eurofins Lubbock

<6mm (1/4").

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August 30, 2022

JOSEPH GUESNIER
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: GETTYSBURG TINHORN

Enclosed are the results of analyses for samples received by the laboratory on 08/26/22 10:30.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

Project Name: GETTYSBURG TINHORN

Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 01 (H223937-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8530	16.0	08/29/2022	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	08/29/2022	ND	189	94.6	200	2.40	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	192	96.2	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	77.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	91.8	% 46.3-17	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

GETTYSBURG TINHORN

Project Name: GETTYSBU Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 02 (H223937-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9460	16.0	08/29/2022	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	08/29/2022	ND	189	94.6	200	2.40	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	192	96.2	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	105	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	125	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

Project Name: GETTYSBURG TINHORN

Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 03 (H223937-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/29/2022	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	08/29/2022	ND	189	94.6	200	2.40	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	192	96.2	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	79.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	93.9	% 46.3-17	78						

Cardinal Laboratories

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Celeg & Freene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

08/30/2022 GETTYSBURG TINHORN

Project Name: GETTYSBU
Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 04 (H223937-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/29/2022	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	08/29/2022	ND	189	94.6	200	2.40	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	192	96.2	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	71.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	83.6	% 46.3-17	8						

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

GETTYSBURG TINHORN

Project Name: Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768) Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: TH - N (H223937-05)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9460	16.0	08/29/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	189	94.6	200	2.40	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	192	96.2	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	64.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	77.7	% 46.3-17	8						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

Project Name: **GETTYSBURG TINHORN**

Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768) Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: TH - E (H223937-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8660	16.0	08/29/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	189	94.6	200	2.40	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	192	96.2	200	0.884	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	58.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	69.4	% 46.3-17	8						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

08/30/2022

Project Name: GETTYSBURG TINHORN

Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TH - S (H223937-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	08/29/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	77.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	78.3	% 46.3-17	78						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

Project Name: GETTYSBURG TINHORN

Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: TH - W (H223937-08)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	08/29/2022	ND	448	112	400	0.00	QM-07
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	17.6	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	81.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	81.4	% 46.3-17	8						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported:

08/30/2022

Project Name: **GETTYSBURG TINHORN** Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768) Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: ESW (H223937-09)

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	08/29/2022	ND	2.06	103	2.00	1.56	
Toluene*	<0.050	0.050	08/29/2022	ND	2.31	116	2.00	0.0954	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.23	111	2.00	0.479	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.98	116	6.00	0.281	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	69.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	69.7	% 46.3-17	8						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

08/30/2022 GETTYSBURG TINHORN

Project Name: GETTYSBU
Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: NSW (H223937-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2022	ND	2.14	107	2.00	8.23	
Toluene*	<0.050	0.050	08/29/2022	ND	2.07	104	2.00	8.02	
Ethylbenzene*	<0.050	0.050	08/29/2022	ND	2.02	101	2.00	7.45	
Total Xylenes*	<0.150	0.150	08/29/2022	ND	6.24	104	6.00	6.45	
Total BTEX	<0.300	0.300	08/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	70.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	70.7	% 46.3-17	78						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported:

08/30/2022 **GETTYSBURG TINHORN**

Project Name: Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768) Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: E - FS 01 (H223937-11)

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	08/30/2022	ND	2.14	107	2.00	8.23	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	104	2.00	8.02	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.45	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.24	104	6.00	6.45	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	73.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	73.9	% 46.3-17	8						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported:

08/30/2022 **GETTYSBURG TINHORN**

Project Name: Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768) Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: E - FS 02 (H223937-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.14	107	2.00	8.23	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	104	2.00	8.02	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.45	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.24	104	6.00	6.45	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	71.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	71.8	26 46.3-17	8						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported:

08/30/2022 **GETTYSBURG TINHORN**

Project Name: Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768) Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: E - FS 03 (H223937-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.14	107	2.00	8.23	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	104	2.00	8.02	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.45	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.24	104	6.00	6.45	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	69.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	69.7	% 46.3-17	8						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

GETTYSBURG TINHORN

ma/ka

Project Name: GETTYSBU
Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E - FS 04 (H223937-14)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.14	107	2.00	8.23	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	104	2.00	8.02	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.45	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.24	104	6.00	6.45	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	60.3	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	60.2	% 46.3-17	<i>'8</i>						

Analyzed By: 14

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

Project Name: **GETTYSBURG TINHORN**

Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768) Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Tamara Oldaker Sample Received By:

Sample ID: E - FS 05 (H223937-15)

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	08/30/2022	ND	2.14	107	2.00	8.23	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	104	2.00	8.02	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.45	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.24	104	6.00	6.45	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	71.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	71.4	% 46.3-17	8						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

08/30/2022 GETTYSBURG TINHORN

Project Name: GETTYSBU
Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E - FS 06 (H223937-16)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.14	107	2.00	8.23	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	104	2.00	8.02	
Ethylbenzene*	< 0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.45	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.24	104	6.00	6.45	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	69.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	69.6	% 46.3-17	78						

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Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported:

08/30/2022

Project Name: **GETTYSBURG TINHORN**

Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768) Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: E - SW - E (H223937-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.14	107	2.00	8.23	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	104	2.00	8.02	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.45	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.24	104	6.00	6.45	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	79.4	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	79.6	% 46.3-17	8						

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Celey D. Keine



Analytical Results For:

TERRACON CONSULTANTS JOSEPH GUESNIER 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 08/26/2022 Reported: 08/30/2022

GETTYSBURG TINHORN

Project Name: GETTYSBU
Project Number: AR227020

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/25/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E - SW - N (H223937-18)

BTEX 8021B	mg/kg Analy			d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/30/2022	ND	2.14	107	2.00	8.23	
Toluene*	<0.050	0.050	08/30/2022	ND	2.07	104	2.00	8.02	
Ethylbenzene*	<0.050	0.050	08/30/2022	ND	2.02	101	2.00	7.45	
Total Xylenes*	<0.150	0.150	08/30/2022	ND	6.24	104	6.00	6.45	
Total BTEX	<0.300	0.300	08/30/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	08/29/2022	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/29/2022	ND	192	96.0	200	1.08	
DRO >C10-C28*	<10.0	10.0	08/29/2022	ND	181	90.4	200	0.698	
EXT DRO >C28-C36	<10.0	10.0	08/29/2022	ND					
Surrogate: 1-Chlorooctane	74.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	74.3	% 46.3-17	8						

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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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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	(5/5) 393-2320 FAX (5/5) 555-24		-		,					P		L TO					1	NAL	YSIS	RE	QUES	ST			
Company Name:							-	0.0	4-	-		LIU		T											
Project Manager:	0000						_		. #:		_													1	١
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city: Carlsba		Zip:	88	322	0			Attr	1:					300		31 B									
Phone #: (575)	689-5949 Fax #:							Add	dres	s:				W	,	802									
Project #: AR2		: Sc	olai	ris				City	_					has	'n	-									
Project Name:	Gettysburg Tinhorn							Sta	te:	NM	1 2	Zip:		in	08	0									- 1
Project Location	: 32.224927,-103.506768							Phone #:				1	20	12											
	Travis Casey		_				_	Fax #: PRESERV. SAMPLING					0	3	4								-		
FOR LAB USE ONLY					N	IATRI	X	\vdash	PRE	SER	(V.	SAMI	LING	100	200	1									
Lab I.D. H223937	Sample I.D.	(G)RAB OR (C)OMF	# CONTAINERS	3ROUNDWATER	NASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chloriele	TPH Exter	BTEX CEPA									
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2	FS02	С	1			х				X		08/25		<	X	X			_	-	-				\vdash
2	FS03	С	1			X				X		08/25	0854	X	X	X			-	-	+	-			\vdash
J U	FS04	С	1			X				Х		08/25	0856	1	X	1			_	-	-	-	\vdash		\vdash
5	TH-N	С	1			X				X		08/25	-	X	X	X			-	+	+	-			
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8	TH-W	С	1			Х			L	X		08/25	1010	1	X	1	-	-	+	+	+	+			
9	ESW	C	1	L		X		-	L	X		08/25		1	X	1			+	+	+	-			1
10	NSW	С	1	L		Х				X	ited t	08/25	1014		1	1						_			

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Terracon							BILL TO									ANA	LYSI	S RE	QUES	ST			\dashv	
	Joseph Guesnier						1	P.O.	. #:						A ,										
10ject manager	W Diorgo Street						1,	Con	nna	nv.	Sc	olaris		5											
	W. Pierce Street		00	222	2							2,3110		8		١.									
city: Carlsba	d State: NM	Zip:	88	220	J		-	Attn						3		- [7								
Phone #: (575)	689-5949 Fax #:						-		ires	s:				100		5	1								
Project #: AR2	227020 Project Owner	: Sc	olar	IS			_	City						Lha	0,116	1000	0						1		
Project Name:	Gettysburg Tinhorn						_ !	Stat	te:	NM	1 ;	Zip:		1	3	1	1								
Project Location	: 32.224927,-103.506768							Pho	one	#:				A		1	1000								
	Travis Casey							Fax #: PRESERV. SAMPLING				6	1	FI .	W W										
FOR LAB USE ONLY			П		M/	TRIX			PRE	SER	۲V.	SAME	PLING	Û		anes									
Lab I.D. H223937	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chlorida	7 / 110	CA	DIEACOLA								
11	E-FS01	С	1			X				х		08/25	1215	X	X			_	1_	-				-	-
17	E-FS02	С	1		,	(X		08/25		1	X	X	1	_	1	1	_				-
12	E-FS03	С	1			X				Х		08/25	1224	1	X	X			1	-					-
14	E-FS04	С	1		1	K				Х		08/25	1226	1	X	X			-	-	-				-
15	E-FS05	С	1		1	K				Х		08/25	1228	X	X	X	_	_		-	-				+
16	E-FS06	С	1			X				х		08/25	1230	1	X	1				1	-				+
15	E-SW-E	С	1			X				х		08/25		1	9	1	4	_	1	-	-				+
18	E-SW-N	С	1		1	(X		08/25	1234	1	1	X			_	1	-				+
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Relinquished By:	Date: 8/26/22	Received By:	01/1/	Verbal Result: ☐ Ye All Results are emailed		Phone #: nail address:	
Relinquished By:	Time: //32 Date:	Received By:	ldakyl	REMARKS:			
	Time:						
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard Rush	Cool Intact	Sample Condition Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C		To.	Thermometer ID #113 Correction Factor -0.5°C	TO 8/26/22	Yes Yes No No	Corrected Temp. °C



September 07, 2022

MIKE ADAMS
TERRACON CONSULTANTS
5827 50TH ST. SUITE 1
LUBBOCK, TX 79424

RE: GETTYSBURG TINHORN

Enclosed are the results of analyses for samples received by the laboratory on 09/01/22 12:05.

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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



Analytical Results For:

TERRACON CONSULTANTS MIKE ADAMS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424

Fax To:

Received: 09/01/2022

Reported: 09/07/2022 Project Name: **GETTYSBURG TINHORN**

Project Number: AR227018

Sampling Date: 08/31/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Project Location: SOLARIS (32.224927-103.506768)

Sample ID: FS 01 5-6 (H224031-01)

Chloride, SM4500Cl-B	, SM4500Cl-B mg/kg			d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 02 5-6 (H	224031-02)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8640	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 03 5-6 (H	224031-03)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 04 5-6 (H	224031-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	09/06/2022	ND	416	104	400	3.77	

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Celey D. Keine



Analytical Results For:

TERRACON CONSULTANTS MIKE ADAMS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424

Fax To:

Received: 09/01/2022 Reported: 09/07/2022

Project Name: GETTYSBURG TINHORN

Project Number: AR227018

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/31/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 05 5-6 (H224031-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 06 3-4 (H2	24031-06)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 07 3-4 (H2	-	/kg	Analyzo	d By: AC					
· ·			-						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 08 3-4 (H2	24031-08)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 09 3-4 (H2	24031-09)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
·		Deporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte	Result	Reporting Limit	Andryzed	r recired Biarin	55	70 1100010.7	Trac value qu	I CI D	Quantici

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Celey & Freene



Analytical Results For:

TERRACON CONSULTANTS MIKE ADAMS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424

Fax To:

Received: 09/01/2022 Reported: 09/07/2022

09/07/2022 GETTYSBURG TINHORN

Project Name: GETTYSBU
Project Number: AR227018

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/31/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 10 3-4 (H224031-10)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 11 3-4 (H	224031-11)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 12 3-4 (H Chloride, SM4500Cl-B	ole ID: FS 12 3-4 (H224031-12) de, SM4500CI-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
•			•			,	·		Qualifiei
Chloride	5040	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 13 3-4 (H	224031-13)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	09/06/2022	ND	416	104	400	3.77	
Sample ID: FS 14 3-4 (H	224031-14)								
Chloride, SM4500Cl-B	-	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	09/06/2022	ND	432	108	400	3.64	QM-07

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



08/31/2022

Cool & Intact

Shalyn Rodriguez

Soil

Analytical Results For:

TERRACON CONSULTANTS MIKE ADAMS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 09/01/2022

09/01/2022 Sampling Date: 09/07/2022 Sampling Type:

Sampling Type: Sampling Condition:

Sample Received By:

Project Name: GETTYSBURG TINHORN
Project Number: AR227018

Project Location: SOLARIS (32.224927-103.506768)

Sample ID: FS 15 3-4 (H224031-15)

Reported:

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Analyte Result Repo		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	09/06/2022	ND	432	108	400	3.64	

Sample ID: FS 16 3-4 (H224031-16)

Chloride, SM4500Cl-B mg/kg		/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	09/06/2022	ND	432	108	400	3.64	

Sample ID: FS 17 3-4 (H224031-17)

Chloride, SM4500Cl-B mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	09/06/2022	ND	432	108	400	3.64	

Sample ID: FS 18 3-4 (H224031-18)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	09/06/2022	ND	432	108	400	3.64	

Sample ID: FS 19 3-4 (H224031-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	09/06/2022	ND	432	108	400	3.64	

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Celeg D. Freene

Qualifier



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

Analytical Results For:

TERRACON CONSULTANTS MIKE ADAMS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424

Fax To:

Received: 09/01/2022 Reported: 09/07/2022

09/07/2022 GETTYSBURG TINHORN

mg/kg

Project Name: GETTYSBU
Project Number: AR227018

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/31/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 20 3-4 (H224031-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	09/06/2022	ND	432	108	400	3.64	
Sample ID: FS 21 3-4 (H2	24031-21)								

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD
Chloride	4400	16.0	09/06/2022	ND	432	108	400	3.64

Sample ID: FS 22 3-4 (H224031-22)

Chloride, SM4500CI-B

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	09/06/2022	ND	432	108	400	3.64	

Sample ID: FS 23 3-4 (H224031-23)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	09/06/2022	ND	432	108	400	3.64	

Sample ID: FS 24 3-4 (H224031-24)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470	16.0	09/06/2022	ND	432	108	400	3.64	

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Celeg D. Freene



Analytical Results For:

TERRACON CONSULTANTS MIKE ADAMS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424

Fax To:

Received: 09/01/2022 Reported: 09/07/2022

09/07/2022 GETTYSBURG TINHORN

Project Name: GETTYSBU
Project Number: AR227018

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/31/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 25 3-4 (H224031-25)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	09/06/2022	ND	432	108	400	3.64	
Sample ID: FS 26 3-4 (H22	24031-26)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	09/06/2022	ND	432	108	400	3.64	
Sample ID: FS 27 3-4 (H22 Chloride, SM4500Cl-B	•	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/06/2022	ND	432	108	400	3.64	
Sample ID: FS 28 3-4 (H22	24031-28)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	09/06/2022	ND	432	108	400	3.64	
Sample ID: FS 29 3-4 (H22	24031-29)								
Sample ID: FS 29 3-4 (H22 Chloride, SM4500Cl-B	2 4031-29) mg	/kg	Analyze	d By: AC					
•	-	/kg Reporting Limit	Analyze Analyzed	d By: AC Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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Celey D. Keine



Analytical Results For:

TERRACON CONSULTANTS MIKE ADAMS 5827 50TH ST. SUITE 1 LUBBOCK TX, 79424 Fax To:

Received: 09/01/2022 Reported: 09/07/2022

GETTYSBURG TINHORN

Project Name: GETTYSBU
Project Number: AR227018

Project Location: SOLARIS (32.224927-103.506768)

Sampling Date: 08/31/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: FS 30 3-4 (H224031-30)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/06/2022	ND	432	108	400	3.64	
Sample ID: N SW 0-4 (H	224031-31)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/06/2022	ND	432	108	400	3.64	
Sample ID: E SW 0-4 (H2	224031-32)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/06/2022	ND	432	108	400	3.64	
Sample ID: S SW 0-6 (H2	224031-33)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/06/2022	ND	432	108	400	3.64	
Sample ID: W SW 0-6 (H	224031-34)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/06/2022	ND	432	108	400	3.77	

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Celey D. Keine



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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Celey D. Kune

Received by OCD: 6/8/2023

Container

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														WHEN RECEIVED	(°C) 2.5°-	# 113	010
fice Location				Phone:													
nec Econon	450	02 W. Pier	ce St Carlsbad NM, 8822	Contact:					300)		<u>@</u>						1
Project Manag	ger	Mike	Adams	SRS #:	741				130		218						1
Sampler's Nar	ne	Travi	s Casey	Sampler's Sig	nature	em'	50	m	- P	ιú	180						
								1-1	Med	801	tho			-			
oject Number	111	1	Project Name	7.1		No. T	pe of Cor	1	- A	per	Me						-
48227	018		Geffisburg	1.n har n		ss	SS	Poly	9 (E	end	PA			-	1		
Matrix Dat	e Time	Comp	Identifying Mar	ks of Sample(s)	Start	Depth 4 oz Glass	2 oz Glass	250 ml Poly	Chloride (EPA Method	TPH Extended 8015	BTEX (EPA Method 8021B)				H2240 Lab Sar	31	
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1 1	0826	++++	F507		1	. 1	_							15			
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+++	0830	+	F509		+	1 ;	+							9			
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	0837	++++	F512		+	1 1	+	+	++	_			1	is			
	0836		FS 13		+	1	+							13			
	0849	++++	FS 14		11	1 1	_							14			
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	0846		F318			1 1	1						1	18			3
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1	0852		F521			1		1	1)					21			
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	1000		1344			,	-										
RNAROUND 1	IME	K	Normal 48-Hour Ri	ush 24-Hour Rush	1	TRRP Labo	ratory Rev	view Checklis	st		□ Yes	□ No					
inquished by		_	Date: Tim	e: Received by				Date:	Time	e:	Bill To:	plans					-
100	20	7	Date: Tim	500 ///		/m		Date:	2/8	00	0	KAR			e-mail results to:		
inquished by	(Signature)		Date: Tim	e: Received by	Signature			Date: 12	Time	e:	506	Kirly			joseph.guesnier@terraco		
/	10	1/2	9-1-22 12	05 / SPLOY	1/2/01	ne	3	-			-				travis.casey@terracon.co		
linquished by	(Signature)		Date: Tim		(Signature			Date:	Time	e:	1				mike.adams@terracon.co	om	
0								-			-						
linquished by	(Signature)		Date: Tim	e: Received by	(Signature)		Date:	Time	e:							
						recal tube	61 5.	1			-						
		-K 144	Makes C Cell	I lim A Air Dam	C Ch	recoal tube	12 - 12	Idae			1				I		

Lubbock Office m 5827 50th Street, Suite 1 m Lubbock, Texas 79424 m 806-300-0140

C - Charcoal tube SL - Sludge

L - Liq A - Air Bag

WW-Wastewater W - Water

S - Soil

VOA - 40 ml vial A/G - Amber Gla 250 ml = Glass wide P/O - Plastic or other

CHAIN	OE	CITE	TOCV	DEC	OPD
LHAIN	UF	CUS	IUCI	KEL	UKU

			Laboratory:										LAB USE ONLYDUE DATE:
	erra		Address:							ANALYSIS	REQUEST		TEMP OF COOLER 1 19 COOLER 1
													TEMP OF COOLER 3.10 CO. LEE #113 8R
ce Location	4502 W. Pierce	St Carlsbad NM, 88220	Phone:					1					
oject Manager	Mike Ad	lams	Contact: SRS #:					300		118)			
ampler's Name	Travis C		Sampler's Sign	nature				bor		805			
								Meth	3015	pod			
ect Number	Pro	ject Name				pe of Conta	_	(EPA P	Extended 8015	A Met			
Date	Time Comb	Identifying Marks of	Sample(s)	Start	End Depth 4 oz Glass	oz Glass	250 ml Poly	Chloride (EPA Method 300)	TPH Exter	BTEX (EPA Method 8021B)		-	1224031 Lab Sample ID
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	0906	F527			1	+		++	-	-	+	-	28 28
	0908	F528		1	1 !	+		+		_	+	-	10
	0910	FS 29			11	++		+	-	_	+	1	30
	0912	N 3W		9	4 1	+		+1	_	_			30 30 33
-	0418	ESW		0	4 1	+		+	1				33
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AROUND TIME	Ø6io	rmal 48-Hour Rush	□ 24-Hour Rush	1	TRRP Labor	ratory Revie	w Checklist	t		□ Yes	□ No		
uished by (Sign		Date: Time:	Receivedby			101	Date:	Time	:	Bill To:	1 No		
	1	8/31 15:00	1111	_	1	2	Pate:	15.	do	0	b leigh	,	e-mail results to:
quished by (Sign	ature)	Date: Time:	Received by	Signature	2)		Date:	Time	10	1208	s Kirk	٢	joseph.guesnier@terraconc.om
///	Vola -	9-1-22 1208	Skod	legar	uey	7	11/20		105				travis.casey@terracon.com
uished by (Signa	ature)	Date: Time:	Received by	(Signature	2)	1	Date:	Time	2:				mike.adams@terracon.com
quished by (Signa	ature)	Date: Time:	Received by ((Signature	:)		Date:	Time	:				
	WW-Wastewater W - Wa		Liq A - Air Bag		arcoal tube	SL - Sludg	ge						
ainer	VOA - 40 ml vial A/G - A	Amber Gla 250 ml = Glass w	ide P/O - Plastic	or other_									
			Lubb	ock Offi	ce m 582	7 50th Stre	et, Suite	1 = L	ubboc	, Texas	79424 m 8	806-300-01	40
							,						
													*

APPENDIX E – WASTE MANIFEST

APPENDIX F – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

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

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 224895

CONDITIONS

Operator:	OGRID:
SOLARIS WATER MIDSTREAM, LLC	371643
907 Tradewinds Blvd, Suite B	Action Number:
Midland, TX 79706	224895
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	9/6/2023