District 1 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

Incident ID	
District RP	3RP-1068
Facility ID	
Application ID	

Release Notification

RCVD Via Email 6/7/19

Responsible Party

Responsible Party: Western Refining Pipeline, LLC	OGRID
Contact Name: Matthew Krakow	Contact Telephone: 505-632-4169
Contact email: matthew.j.krakow@andeavor.com	Incident # (assigned by OCD)
Contact mailing address: 111 CR4990 Bloomfield, NM 87413	nVF1829050741

Location of Release Source

Latitude 35.733235

Longitude -107.747355 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Hospah Station	Site Type: Crude Station
Date Release Discovered: 09/08/2018	API# (if applicable)

Unit Letter	Section	Township	Range	County
	1	17N	9W	McKinley

**Deferment approved Addtional Remediation Required at P&A or When area is accesible which ever comes first. **

Surface Owner: State Federal Tribal Private (Name: Newmont)

Nature and Volume of Release

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

🔀 Crude Oil	Volume Released (bbls) 925	Volume Recovered (bbls) 821
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
Piping component failu	re caused the release of the crude oil.	

Smith, Cory, EMNRD

From:	Smith, Cory, EMNRD
Sent:	Wednesday, July 3, 2019 2:14 PM
То:	'Krakow, Matthew J'
Cc:	Powell, Brandon, EMNRD
Subject:	RE: Hospah Station Closure Request

Mr. Krakow,

OCD has reviewed the revised Hospah Station Closure request has approved it with the following conditions of approval

- OCD has Granted Western deferral request for impacts located under the concrete slab in area 2. The operator of the station is to remediate this area either at P&A or if the area becomes available for remediation which ever happens first.
- OCD also approves Westerns variance request for impacts located south of the facility boundary with the data provided the bulk of the contamination appears to be historic in nature and appears to be associated with the neighboring operator equipment/piping no further action is required at this time. However, if Western failed to properly delineate this area additional remediation maybe required in the future.

The incident will remain open In the OCD system until the differed area is remediated if you have any additional questions please give me a call.

The approved deferral will be scanned into 3RP-1068 case file.

NVF1829050741 WESTERN HOSPAH STATION @ FVF1829049195

General Incident InformationEdit

Site Name: WESTERN HOSPAH STATION Well: Facility: [fVF1829049195] WESTERN HOSPAH STATION Operator: [310025] WESTERN REFINING PIPELINE, LLC Status: Closure Not Approved Type: Release Other District: Aztec Severity: Major

Surface Owner:

County: McKinley (31)

Incident Location: A-01-17N-09W Lot: 0 FNL 0 FEL Lat/Long: 35.733235,-107.747355 NAD83 Directions: Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Krakow, Matthew J < Matthew.J.Krakow@andeavor.com>
Sent: Monday, June 24, 2019 9:59 AM
To: Smith, Cory, EMNRD <Cory.Smith@state.nm.us>
Subject: [EXT] RE: Hospah Station Closure Request

Hi Cory,

Do you have a estimate of when the Hospah Report will be reviewed? Thanks

From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Sent: Tuesday, May 07, 2019 1:46 PM
To: Krakow, Matthew J <<u>Matthew.J.Krakow@andeavor.com</u>>
Cc: Powell, Brandon, EMNRD <<u>Brandon.Powell@state.nm.us</u>>
Subject: [EXTERNAL] RE: Hospah Station Closure Request

Matt,

As discussed the OCD has Reviewed the C-141 request and has determined that the C-141 report in administratively incomplete for the following reasons.

- The C-141 is filled out as an initial, Western/Andeavor needs to complete a new C-141 requesting a deferral please also make sure to fill out the C-141 complete and correctly.
- Executive Summary
 - Western/Andeavor needs to provide more details and reasoning for the impacts on the south and east ends as to why they believe the impacts are not related. Examples Was there a change in composition? Colors? Etc.
 - (Requested not required) it would be helpful to include dates on when each area was being worked on as this would assist in identify samples and their relative location.
- I am having a hard time reviewing Western/Andeavor Data, Sample names are not the same from table
 1, to figures 2,3,4 and then they do not match the laboratory samples submitted to the lab.
 - o Examples
 - Where is Excavation #1 Bottom sample located?
 - Where is sample Deep well Grab taken? Was it removed?
 - Where is sample North of electrical panel W Secti taken? Was it removed?
 - Where is sample North of electrical Panel E. Section taken?
 - Please review the Table 1, figures and submitted lab results to make sure they are all identified correctly.
- I was able to find the deferral request for the impacts below the 3' concrete pad with the application of oxidizer. I do not see any attachments or approvals from OCD for the following sample locations
 - East of Fence north section

- E. of fence S of deep well
- o S wall west section
- o S wall east section
- o E wall south section

If Western/Andeavor dosnt have an approval from OCD then Western/Andeavor needs to make a variance request for those samples per 19.15.29.14 NMAC Please submit an updated report no later than June 7, 2019 digitally via email is acceptable, or single sided hard copy to if needed.

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Krakow, Matthew J <<u>Matthew.J.Krakow@andeavor.com</u>>
Sent: Wednesday, April 24, 2019 1:20 PM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Powell, Brandon, EMNRD <<u>Brandon.Powell@state.nm.us</u>>
Subject: [EXT] RE: Hospah Station Closure Request

Cory,

There are areas in the Hospah Closure Request, as we previously discussed, that are over the requirements and will require OCD buy off to get the site closed so we are waiting to backfill until we get approval.

From: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>> Sent: Wednesday, April 24, 2019 1:10 PM To: Krakow, Matthew J <<u>Matthew.J.Krakow@andeavor.com</u>> Cc: Powell, Brandon, EMNRD <<u>Brandon.Powell@state.nm.us</u>> Subject: [EXTERNAL] RE: Hospah Station Closure Request

Matt,

I have received it.. If you have sent in the final report and all of the samples are below the regulatory requirements (Or you included your approval to defer them) there should be no issues with proceeding to get your station back online.

In terms of timelines OCD has 60 Days to review a closure report before its deemed denied per 19.15.29.12 NMAC.

Thanks,

Cory Smith Environmental Specialist Oil Conservation Division Energy, Minerals, & Natural Resources 1000 Rio Brazos, Aztec, NM 87410 (505)334-6178 ext 115 cory.smith@state.nm.us

From: Krakow, Matthew J <<u>Matthew.J.Krakow@andeavor.com</u>>
Sent: Wednesday, April 24, 2019 9:20 AM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Powell, Brandon, EMNRD <<u>Brandon.Powell@state.nm.us</u>>
Subject: [EXT] FW: Hospah Station Closure Request

Hi Cory,

I just want to confirm that you received the Hospah Station Closure Request? Can you give me an estimated time for the review to be complete? We would like to finish backfilling and getting the permanent facility fence back in place for security purposes as soon as possible. Thanks

From: Krakow, Matthew J
Sent: Tuesday, April 16, 2019 10:55 AM
To: Smith, Cory, EMNRD <<u>Cory.Smith@state.nm.us</u>>
Cc: Powell, Brandon, EMNRD <<u>brandon.powell@state.nm.us</u>>; O'Brien, Jessica L <<u>JOBrien@Marathonpetroleum.com</u>>
Subject: Hospah Station Closure Request

Hi Cory,

Here is the Hospah Station Closure Request. I will stop by your office to deliver the paper copy. Thanks

Matthew Krakow Environmental Specialist

111 County Road 4990 Bloomfield, NM 87413 <u>Matthew.J.Krakow@andeavor.com</u> Office: (505) 632-4169| Fax: (505)-632-4021



Please note: My email address changed to Matthew.J.Krakow@andeavor.com on July 31, 2017. Please update your records.

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMÁC?	Major release defined by the spill volume >25 barrels.
🛛 Yes 🗌 No	
	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes, Matthew Krakow no	tified Jim Griswold, Vanessa Fields, and Cory Smith by email and left voicemails for Jim Griswold and
Vanessa Fields.	

Initial Response

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

 \boxtimes The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Matthew Krakow

Title: Environmental Specialist

Date: 9-21-18

email: matthew.j.krakow@andeavor.com

Telephone: 505-632-4169

Received by:

Signature: 11

Date:

9/21/2018 Western Refining Pipeline, LLC 111 CR4990, Bloomfield, NM 87413

Current Remediation Actions (Hospah Station)

Western Refining has initiated the remediation process at the Hospah site. The initial actions included isolation of the station and termination of the release of oil, containing the spill, and recovering the free product with vacuum trucks and absorbent materials. Western has continued the remediation efforts by excavating the impacted soils at the site. Western is currently working with the local district office to collect confirmation sampling for the first clean-up area. Impacted soils have been characterized and are being disposed of at Envirotech's land farm. Additional remediation is still required and is ongoing.

Matthew Krakow Environmental Specialist 505-632-4169

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
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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.

	1
What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🛛 Yes 🗌 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Form C-141	State of New Mexico	Incident ID	
Page 4	Oil Conservation Division	District RP	******
		Facility ID	
		Application ID	
regulations all operators a public health or the enviro failed to adequately invest	aformation given above is true and complete to the best of my lare required to report and/or file certain release notifications an onment. The acceptance of a C-141 report by the OCD does not tigate and remediate contamination that pose a threat to ground e of a C-141 report does not relieve the operator of responsibilities.	d perform corrective actions for releases which ot relieve the operator of liability should their of lwater, surface water, human health or the envi	n may endanger operations have ironment. In

Printed Name: Matthew Kra Kow	Title: HES Professional
Signature: MARTM/h	Date: 6/7/19
email: Matthew, J. Krakon@ Andewor. com	Telephone: 505-632.4169
OCD Only	
Received by:	Date:

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Form C-141

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State of New Mexico Oil Conservation Division

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Remediation Plan

<u>Remediation Plan Checklist</u> : 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: Matthew KraKow Title: HES Professional						
Printed Name: <u>Matthew KraKow</u> Signature: <u>Matthew KraKow</u> Date: <u>6/7/19</u>						
email: Matthew. J. Krallow @ Andervor. com Telephone: 505-632-4169						
OCD Only						
Received by:OCD Date:9/7/19						
Approved Approved with Attached Conditions of Approval Denied Deferral Approved						
Signature: Comp And Date: 7/3/19						





848 East Second Avenue Durango, Colorado 81301 970.385.1096

June 7, 2019

Mr. Cory Smith Environmental Specialist New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

RE: Hospah Station Deferral Request and Closure Variance Request Western Refining Pipeline, LLC Hospah Station McKinley County, New Mexico

Dear Mr. Smith:

LT Environmental, Inc. (LTE) on behalf of Western Refining Pipeline, LLC (Western), presents the following closure request for remediating impacted soil associated with the failure of an oil transfer pump at the Hospah Station (Site) in Section 1 of Township 17 North, Range 9 West in McKinley County, New Mexico. Remedial activities occurred to the north, east, and west of a newly installed concrete pad that will house oil transfer pumps necessary for facility operations. This document presents information confirming removal of impacted soil and permission to backfill the excavated area. Additional information is presented to supplement a previously approved request to defer remediation of impacted soil under the permanent concrete pad. Finally, Western is requesting a variance to leave in place historically impacted soil encountered in the subsurface of an area affected by misting. The variance request is based on the depth of soil impact, differences in soil sample chromatographic profile, and knowledge of historical release(s) from a neighboring facility.

Please refer to the *Hospah Station Deferment Request* (Deferment Request) document submitted on October 11, 2018, documenting approval by the New Mexico Oil Conservation Division (NMOCD) to leave in place approximately 140 cubic yards of impacted soil beneath a concrete pad until facility closure and deconstruction or when construction activities at the Site allow for access to the impacted soil beneath the concrete pad. Information provided in the Deferment Request is also presented in subsequent sections of this report at the request of the NMOCD.

BACKGROUND

On September 8, 2018, the failure of an oil transfer pump resulted in the release of 925 barrels (bbls) of crude oil at the Site. At the time of the failure, Western was conducting upgrades to existing infrastructure and had open trenches to the immediate south, southwest, and northwest of the oil transfer pumps this allowed free standing oil to flow to these areas. The failure also





resulted in a spray of oil mist that impacted areas to the south, north and east of the oil transfer pumps. In response to the release, Western isolated the station, contained the release, used vacuum trucks to recover free standing oil, and initiated excavation activities. Approximately 821 bbls of crude oil were recovered.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on data for the nearest permitted water well, C-96623, located 2,263 feet to the northwest. Depth to groundwater in the water well is 580 feet bgs and total depth of the water well is 780 feet bgs. The Site is located less than 300 feet from Sandoval Arroyo to the south. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet to a permanent residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within an unstable area, 100-year floodplain, or overlying a subsurface mine. Based on these criteria, the following NMOCD remediation action levels apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), 100 mg/kg total petroleum hydrocarbons (TPH), and 600 mg/kg chloride.

REMEDIATION ACTIVITIES

On September 9, 2018, Western began excavation activities where impacted soil was observed, starting with the areas closest to the oil transfer pumps and moving outward, excavating around piping and other infrastructure as it was encountered. The excavation extent is represented as Area 1 through Area 3 on Figure 1, on which depths of each area are shown. An approximately 60-foot by 16-foot concrete pad is located in the release footprint, which prevented excavation activities immediately around and under its location (yellow rectangle in Area 2 on Figure 1).

Initially, an area south of the concrete pad was excavated to an average depth of approximately 6 feet bgs Figure 3. A trench north of the concrete pad was excavated to an average depth of approximately 8 feet bgs, represented as North Trench on Figure 2. An area west of the recently installed concrete pad ("Excavated Depression") was excavated to an approximate depth of 12 feet bgs, between the concrete pad for the oil transfer pumps and a second concrete pad that was the foundation of a former out-building. Although visible on the aerial on Figure 1 and Figure 2, the former out-building concrete pad was removed as part of the excavation activities and soil beneath it has been removed. The excavated area west of the recently installed concrete pad is represented as South Trench Depression Bottom on Figure 2. Excavation near the concrete pad halted for a period while Western requested a deferment to leave impacted soil beneath the concrete pad in place. During this time excavation activities continued in excavation area 1.

Excavation in Area 1 continued north and northeast of the original excavation extent. The excavation depths ranged from 6 feet to 1 feet bgs as the excavation extended laterally. Following completion of excavation activities, 5-point composite confirmation soil samples were collected from the floor and sidewalls of the excavation. The NMOCD was on site during sampling activities





to observe and approve of the composite sample locations. The excavation extent and soil sample locations are depicted on Figure 2.

Following approval of the deferment request excavation in Area 2 continued to the west, northwest, and east of the concrete pad. The average depth of the excavation ranged from 4 feet bgs to the west and 8 feet bgs to the northwest and northeast. Over-excavation occurred below the former outbuilding to a depth of approximately 12 feet bgs where additional impacted soil (likely historical) was encountered. Following completion of excavation activities, 5-point composite confirmation soil samples were collected from the floor and sidewalls of the excavation. The NMOCD was on site during sampling activities to observe and approve of the composite sample locations. The excavation extent and soil sample locations are depicted on Figure 3.

Excavation Area 3 continued to the east of Excavation Area 2 approximately 30 feet beyond the site boundary fence to depths ranging from 2 feet to 6 feet bgs. Following completion of excavation activities, 5-point composite confirmation soil samples were collected from the floor and sidewalls of the excavation. The NMOCD was on site during sampling activities to observe and approve of the composite sample locations. The excavation extent and soil sample locations are depicted on Figure 4.

Representative 5-point composite soil samples were collected during excavation activities to confirm floor and sidewall clearance or to determine if additional excavation activities were necessary. The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler, method of analysis, and immediately placed on ice. The soil samples were shipped at 4 degrees Celsius (°C) under strict chain-of-custody procedures to a certified lab for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) by USEPA Method 8015M/D, and chloride by USEPA Method 300.0.

Western excavated approximately 5,430 cubic yards of impacted soil. Figure 1 depicts the horizontal extent of the excavation (Area 1 through Area 3) as of March 25, 2019. Soil was transported offsite and disposed of at the Envirotech Landfarm in Bloomfield, New Mexico.

DEFERMENT REQUEST

A recently installed 3-foot thick reinforced concrete pad is located within the release footprint and impacted soil has been identified beneath it. This recently installed concrete pad is currently empty but is planned to be used for installing an updated and redesigned pump system required for operating the facility. Western has delineated the impacted soil around and beneath the concrete pad (Figure 3 and Table 1). Analytical results from soil sampling indicate that impacted soil is present from directly beneath the concrete pad to a depth of less than 4 feet bgs. Composite soil samples collected from the excavation walls surrounding the concrete pad





indicate the majority of impacted soil from this area has been removed, with small portions still exceeding the NMOCD remediation action levels as indicated by grab samples: S. Trench Sec. 5 East Wall Grab; S. Trench Sec. 2 Under Slab Grab; S. Trench Sec. 2 Under Slab #1; and S. Trench Sec. 2 Under Slab #2 (Highlighted samples on Figure 3. Impacted soil represented by those samples is delineated vertically by deeper samples collected under the slab from 12 inches, 18 inches, and 4 feet bgs. The impacted soil is delineated laterally by the same discrete samples and excavation confirmation composite samples collected from excavation sidewalls and sections of the excavation floor.

In accordance with New Mexico Administrative Code (NMAC) 19.15.29.12 C. (2), Western proposed to leave in place approximately 140 cubic yards of impacted soil beneath the concrete pad until facility closure and deconstruction or when construction activities at the Site allow for access to the impacted soil beneath the concrete pad. Western has excavated as close as possible to the edge of the concrete pad without compromising the structural integrity of the pad. Composite soil samples collected from each excavation sidewall and floor surrounding the concrete pad contain no concentrations of BTEX or TPH exceeding NMOCD standards. Grab samples collected from under the concrete pad via horizontal boring contain concentrations of total BTEX ranging from below laboratory detection limits to 168.72 mg/kg in S. Trench Sec. 2 Under Slab Grab. Concentrations of total TPH in soil samples from under the concrete pad range from below laboratory detection limits to 56,020 mg/kg in S. Trench Sec. 2 Under Slab Grab. To enhance natural attenuation of the impacted soil to be left in place below the concrete pad, Western applied a 3 percent (%) solution of potassium permanganate. The solution was applied to the impacted areas below and surrounding the concrete pad. The Potassium Permanganate Safety Data Sheet (SDS) is included as an attachment.

This information was previously provided to the NMOCD and approved on October 16, 2018. It is presented here at the request of the NMOCD for comprehensive reporting. Based on the approved Deferment Request submitted on October 11, 2018, and in accordance with New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) C. (2), Western received approval to leave in-place the approximately 140 cubic yards of impacted soil beneath the 3-foot thick reinforced concrete pad. The impacted soil will be addressed during facility closure and deconstruction or if construction activities at the Site allow for access to the impacted soil beneath the concrete pad.

ANALYTICAL RESULTS OF FINAL EXCAVATION

Laboratory analytical results of composite soil samples collected from the excavation floor and sidewalls indicate all the impacted soil from Area 1 has been removed. All composite samples within the excavation extent of Area 1 are below laboratory detection limits or within NMOCD remediation action levels (Figure 2 and Table 1).





Laboratory analytical results of composite soil samples collected from the excavation floor and sidewalls indicate all the impacted soil from Area 2 has been removed, with the exception of soil being left in place beneath the concrete pad. All composite soil samples collected within the excavation extent of Area 2 are all below laboratory detection limits. (Figure 3 and Table 1).

Western excavated the impacted soil to the east of the concrete pad defined as excavation extent Area 3. The excavation extent east of the concrete pad was excavated to just east of the property boundary of the Site. Laboratory analytical results of composite soil samples collected from the east excavation walls indicate all of the impacted soil from within Area 3 has been removed, with the exception of the southern, southeastern, and western wall areas which exceed the NMOCD remediation action levels as identified by composite soil samples 'West wall center section', 'S Wall West Section', 'S Wall East Section', and 'E Wall South Section'. Total BTEX for all composite soil samples collected were either below laboratory detection limits or within the NMOCD remediation action levels. Concentrations of total TPH ranged from 155 mg/kg in composite soil sample 'West wall center section' to 1,414.2 mg/kg in 'S Wall West Section'.

Although composite soil sample 'West wall center section' exceeds the NMOCD remediation action level of 100 mg/kg for total TPH, the sample was collected below the east end of the concrete pad; and therefore will be left in place for deferral until facility closure and deconstruction or when construction activities at the Site allow for access to the impacted soil beneath the concrete pad. Western applied a 3 % solution of potassium permanganate to this excavation wall as part of the deferment request described in the previous section.

Additional soil scraping and sampling activities were completed east of the site boundary fence to approximately 2 feet bgs (Area 3). This shallow soil removal addressed soil affected by a mist from the release, where only the top inches of soil would have been impacted. Laboratory analytical results of the composite soil samples collected east of the fence indicate two areas exceed the NMOCD remediation action levels of 100 mg/kg for total TPH with values ranging from 150 mg/kg at composite soil sample location 'East of fence north section' to 520 mg/kg at 'E of Fence S of Deep well'. All other analytes are below laboratory detection limits or within NMOCD remediation action levels (Figure 4 and Table 1) and are therefore compliant with NMOCD remediation action levels.

VARIANCE REQUEST

Impacted soil remains on the south, southeast, north and northeast ends of the east excavation (Area 3) represented by soil samples 'E of Fence S of Deep well', 'East of fence north section', 'S Wall East Section', 'S Wall West Section', and 'E Wall South Section'. The observed impacted soil remaining in these areas does not appear to be associated with the oil transfer pump failure and subsequent release. This area was affected by misting only and is located in close proximity to the adjacent landowner's oil and gas piping infrastructure. When the failure of the oil transfer pumps occurred, it resulted in both a release of free standing oil to the immediate south,





southwest, and northwest of the oil transfer pumps and a spray of oil mist that impacted areas to the south, north and east of the oil transfer pumps. The oil spray was not concentrated enough to impact the subsurface deeper than 1 to 2 inches bgs. The greatest impact in the spray impacted areas was observed at the surface. Historically impacted soil encountered on the south, southeast, north, and northeast portions of Area 3 was encountered at a depth as great as 2 feet bgs, well below the depth misting impacted the surface.

The impacted soil appeared different visually during the excavation and also displayed differences in the laboratory analysis. The impacted soil encountered at 2 feet was darker in color than the soil impacted by mist from the oil transfer pump release. The deeper impacted soil appeared degraded (drier and crumbling). Soil samples from the misted surface and from the subsurface were analyzed using a gas chromatogram (GC) and the response curves are included as Attachment 1. The chromatograms included are results from the recent misted release sample (W of Panel West Side), two samples from the deeper historically impacted soil (S Wall East Section and S Wall West Section), and a laboratory standard of the n-alkanes (straight chained carbon molecules). According to the Interstate Technology Regulatory Council (ITRC) guidance document TPH Risk Evaluation at Petroleum-Contaminated Sites Appendix A.5 Chromatograms a Wealth of Information, 'the chromatographic profile changes with environmental weathering of petroleum mixtures, but in predictable ways. In general, under aerobic conditions, n-alkanes are relatively easy to biodegrade. In most crude oils, n-alkanes are the most predominant features.' While all the sample chromatograms appear to have the same general shape, there is a striking difference between the recent misted sample and the historical release samples. The recent misted release sample (W of Panel West Side) has a series of spikes from 7 minutes to 12 minutes. A majority of the spikes are the n-alkanes which tend to be the predominant feature in crude oil. The n-alkanes have degraded in the historical release samples leading to a smoother GC response curve. To note is the predominant spike at approximately 10 minutes in the recent spray sample. From the laboratory standard chromatogram, we can deduce that this is the C24 n-alkane, which has all but disappeared in the historical spill samples due to weathering. The general shape of the curve 'hump' is largely composed of branched alkanes, cycloalkanes, and naphthene aromatics which are less readily available for biodegradation. The similarities between all samples indicate that the source is similar, but have varying degrees of weathering which support two separate release events.

Based on discussions between long-term facility personnel and NMOCD personnel, there is knowledge of historical release(s) at the adjacent property. The subsurface impacted soil is presumed to be historic and the result of the adjacent property owners' operations and was not remediated as part of the excavation activities associated with Western's oil transfer pump failure. As such, Western requests a variance to the requirement to remediate all impacted soil and permission to leave the historic impacts in place to be addressed by the appropriate third party.





Based on the remediation information presented, including information presented in the approved Deferment Request submitted on October 11, 2018, LTE, on behalf Western, respectfully requests to defer remediation of soil beneath the concrete pad, backfill the excavation, and leave historic impacts east of the facility to be addressed by the neighboring operator.

Sincerely,

LT ENVIRONMENTAL, INC.

> en gr

Devin Hencmann Project Geologist





Smith, C. Page 8

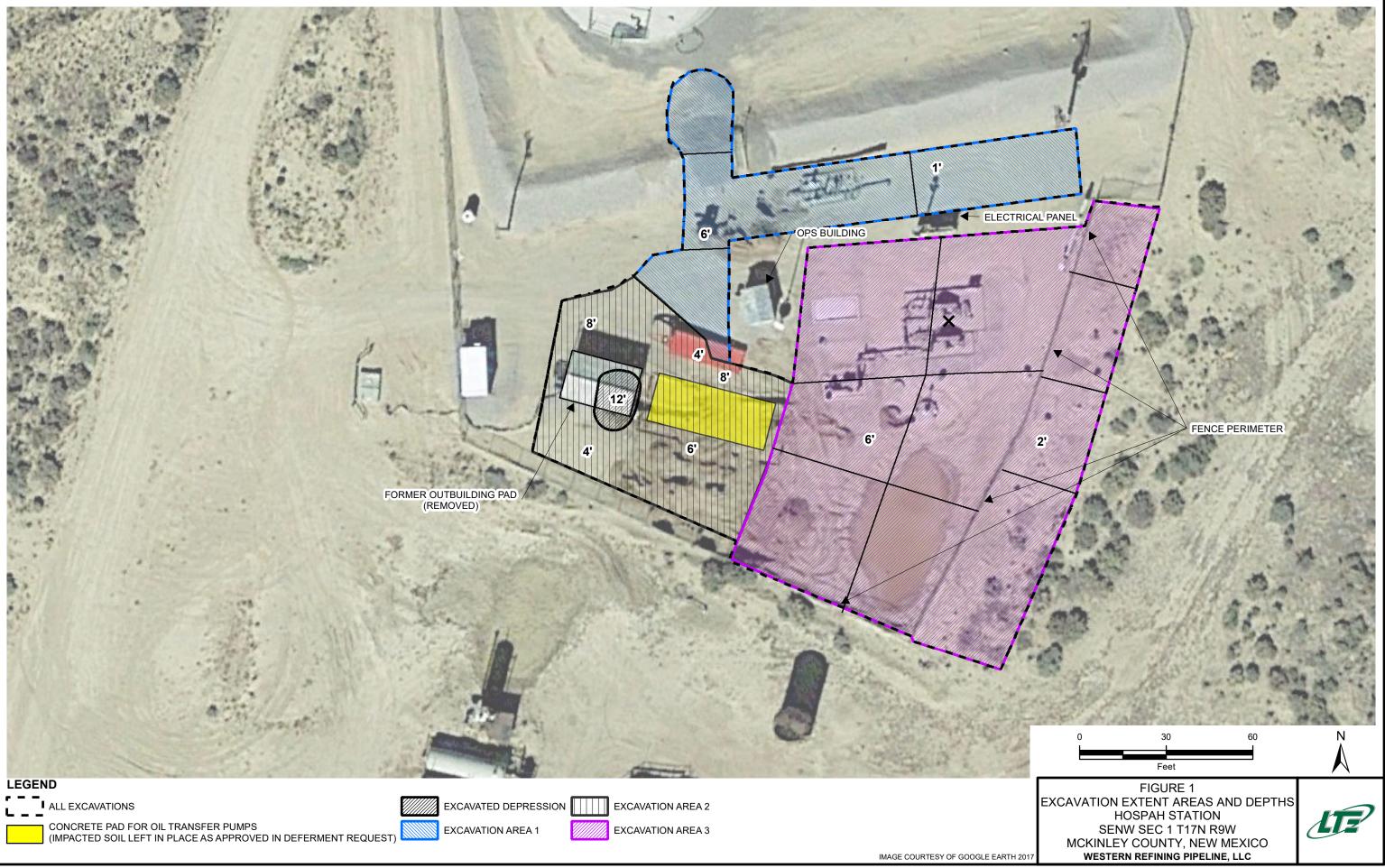
Attachments:

- Figure 1Excavation Extent Areas
- Figure 2 Soil Sample Locations Area 1
- Figure 3 Soil Sample Locations Area 2
- Figure 4 Soil Sample Locations Area 3
- Table 1Soil Analytical Results
- Attachment 1 Chromatogram Response Curves
- Attachment 2 Photo Log
- Attachment 3 Laboratory Analytical Reports
- Attachment 4 Potassium Permanganate SDS



FIGURES

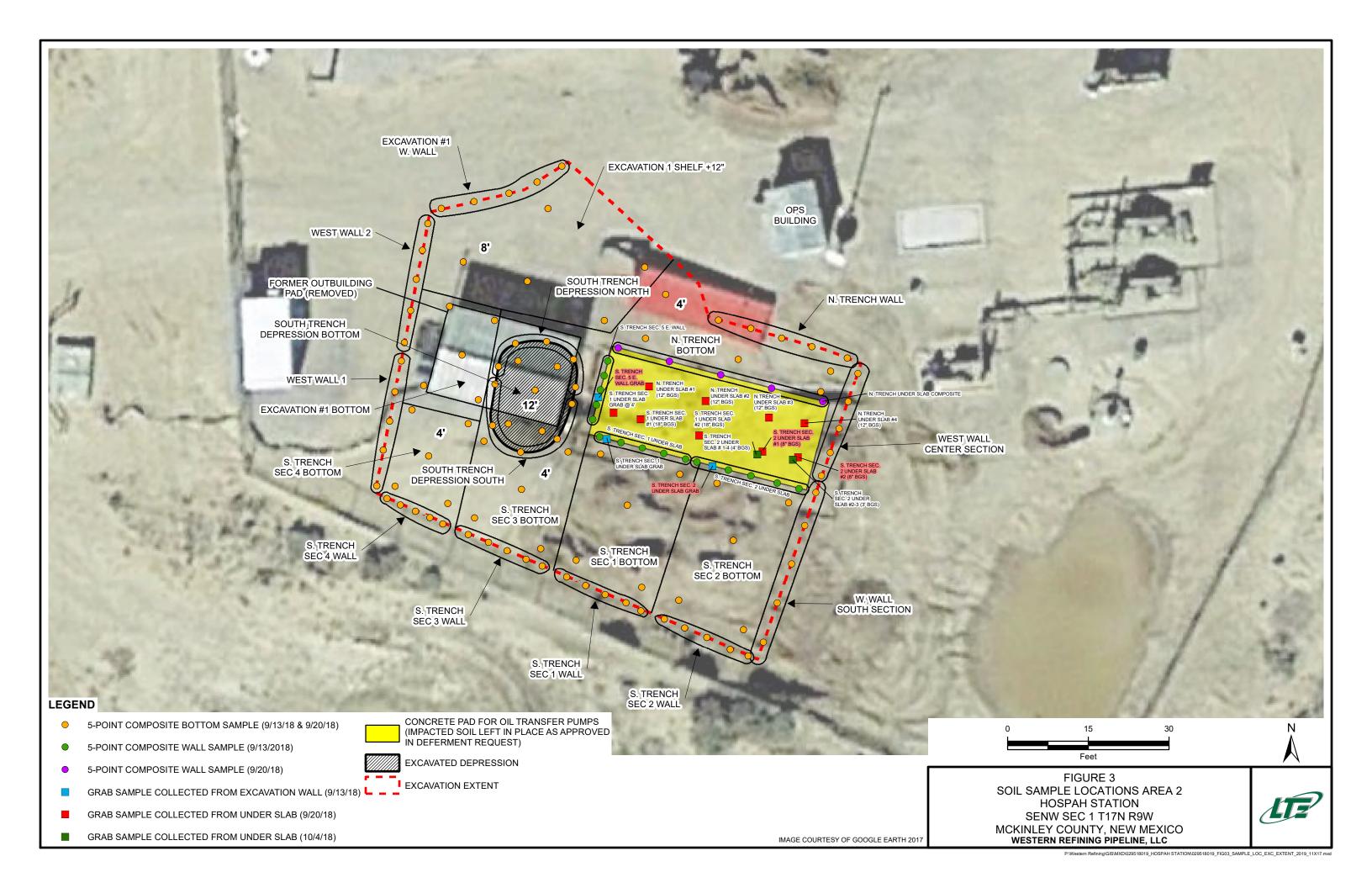




P:\Western Refining\GIS\MXD\029518019_HOSPAH STATION\029518019_FIG01_ALL EXC AREAS_2019_11X17.mxd



P:\Western Refining\GIS\MXD\029518019_HOSPAH STATION\029518019_FIG02_SOIL_2019_11X17_NW.mxd



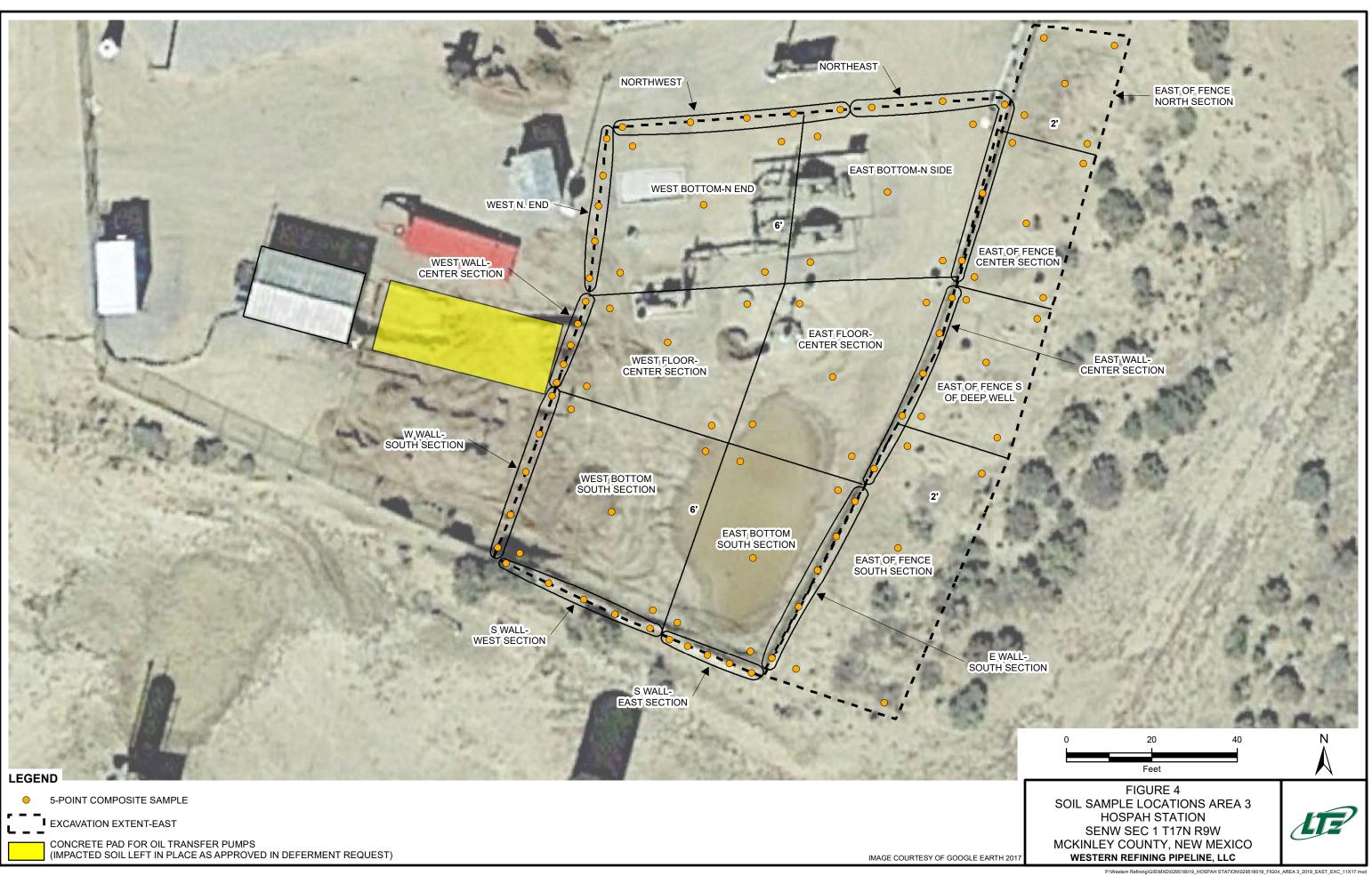




TABLE 1 CLOSURE SOIL ANALYTICAL RESULTS

HOSPAH STATION MCKINLEY COUNTY, NEW MEXICO WESTERN REFINING, INC.

Sample Name	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	C6-C10 Gasoline Range Organics (mg/kg)	C10-C28 Diesel Range Organics (mg/kg)	C28-C40 Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
S. Trench Sec. 1 Bottom	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	30.5	<50.0	30.5	<20.0
S. Trench Sec. 2 Bottom	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 1 Wall	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 2 Wall	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 1 Under Slab	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 2 Under Slab	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 1 Under Slab Grab	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 2 Under Slab Grab	9/13/2018	4.72 <0.1	40.9 <0.1	17.1 <0.1	106	168.72 <0.1	1,010	47,400	7,610	56,020 76.3	<20.0 <20.0
S. Trench Sec. 3 Bottom S. Trench Sec. 4 Bottom	9/13/2018 9/13/2018	<0.1	<0.1	<0.1	<0.1 <0.1	<0.1	<20.0	76.3 <25.0	<50.0	<50.0	<20.0
S. Trench Sec. 3 Wall	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	40.1	<50.0	40.1	<20.0
S. Trench Sec. 4 Wall	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 5 E. Wall	9/13/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 5 E. Wall Grab	9/13/2018	0.166	3.56	2.7	17.6	24.026	207	5,260	786	6,253	<20.0
S. Trench Sec. 1 Under Slab #1 (18" bgs)	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 1 Under Slab #2 (18" bgs)	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 1 Under Slab Grab @ 4'	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
S. Trench Sec. 2 Under Slab #1 (8" bgs)	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	422	350	772	<20.0
S. Trench Sec. 2 Under Slab #2 (8" bgs)	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	157	187	344	<20.0
N. Trench Under Slab Composite	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
N. Trench Bottom	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
N. Trench Under Slab #1 (12" bgs)	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
N. Trench Under Slab #2 (12" bgs)	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
N.Trench Under Slab #3 (12" bgs)	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
N.Trench Under Slab #4 (12" bgs)	9/20/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
Excavation #1 W. Wall	9/27/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	32.5	<50.0	32.5	<20.0
Excavation #1 Bottom	9/27/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
Excavation #1 E. Wall	9/27/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	<20.0
N. Trench Wall	9/27/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<50.0	<100.0	<100.0	<20.0
Excavation #2 W. Wall	9/27/2018	<0.1	<0.1	<0.1	<0.1	<0.1	<20.0	<25.0	<50.0	<50.0	66.1
Excavation #2 S. Wall S. Trench Sec. 2 Under Slab #2-3 (3' bgs)	9/27/2018 10/4/2018	<0.1 <0.022	<0.1 <0.044	<0.1 <0.044	<0.1 <0.088	<0.1 <0.088	<20.0 <4.4	<25.0 <10	<50.0 <50	<50.0 <50	<20.0 <30
S. Trench Sec. 2 Under Slab #2-5 (5 bgs)	10/4/2018	<0.022	<0.044	<0.044	<0.088	<0.088	<4.4	<9.7	<48	<48	<30
Excavation 1 Shelf +12"	10/11/2018	<0.021	<0.037	<0.037	<0.002	<0.032	<3.7	<10	<50	<50	<30
South Trench Depression South	10/11/2018	<0.015	<0.031	<0.031	<0.061	<0.061	<3.1	<9.3	<47	<47	<30
South Trench Depression North	10/11/2018	<0.017	< 0.033	< 0.033	<0.066	<0.066	<3.3	<9.6	<48	<48	<30
West Wall 1	10/11/2018	<0.019	< 0.038	<0.038	<0.076	< 0.076	<3.8	<10	<50	<50	<30
West Wall 2	10/11/2018	<0.020	<0.040	< 0.040	<0.080	< 0.080	<4.0	<10	<50	<50	<30
South Trench Depression Bottom	10/11/2018	<0.023	<0.046	<0.046	<0.091	< 0.091	<4.6	<9.9	<50	<50	<30
Ex 2 N Wall	11/16/2018	<0.020	<0.040	<0.040	<0.081	<0.081	<4.0	<9.8	<49	<49	<30
West Wall	11/16/2018	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<10	<50	<50	87
East Wall	11/16/2018	<0.020	< 0.039	< 0.039	<0.079	<0.079	<3.9	<10	<50	<50	53
Bottom	11/16/2018	<0.018	<0.035	<0.035	<0.070	<0.070	<3.5	<9.8	<49	<49	35
Bottom 2	11/16/2018	<0.020	<0.040	<0.040	<0.081	<0.081	<4.0	<10	<50	<50	<30
Trench Ramp	11/16/2018	<0.021	<0.043	<0.043	<0.086	<0.086	<4.3	<9.7	<48	<48	<30
Trench #2 +2'	11/20/2018	<0.1	<0.1	<0.1	<0.2	<0.2	<20.0	<25.0	<50.0	<50.0	<20.0
Northeast	1/25/2019	<0.020	<0.039	< 0.039	<0.079	<0.079	<3.9	<9.3	<47	<47	<30
West N. End	1/25/2019	<0.021	<0.041	<0.041	<0.083	<0.083	<4.1	<9.1	<46	<46	<30
Northwest	1/25/2019 1/25/2019	<0.019 <0.022	<0.037 <0.044	<0.037 <0.044	<0.074 <0.088	<0.074 <0.088	<3.7 <4.4	27 <9.5	61 <47	88 <47	<30 <30
West Bottom N. End East Bottom N. Side	1/25/2019	<0.022	<0.044	<0.044	<0.088	<0.088	<4.4	<9.5 49	<47	<47 49	<30
West Floor Center Section	2/1/2019	<0.021	<0.042	<0.042	<0.084	< 0.084	<4.2	49	<50	13	<60
East Floor Center Section	2/1/2019	<0.025	<0.048	<0.048	<0.093	<0.095	<4.0	13	<50	15	<60
East Wall Center Section	2/1/2019	<0.025	<0.038	<0.038	<0.033	<0.033	<3.8	<10	<50	<50	<60
West bottom south section	2/7/2019	<0.025	<0.050	<0.050	<0.10	<0.10	<5.1	<9.9	<49	<49	<60
East bottom south section	2/7/2019	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	<9.5	<48	<45	<60
East of fence center section	2/7/2019	<0.022	<0.044	< 0.044	<0.088	<0.088	<4.4	<10	<50	<50	<60
East of fence north section	2/7/2019	<0.023	<0.045	<0.045	< 0.090	<0.090	<4.5	40	110	150	<60
E of Fence S of Deep well	2/7/2019	<0.026	<0.052	<0.052	<0.10	<0.10	<5.2	140	380	520	<60
West wall center section	2/7/2019	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	75	100	175	<60
W Wall South Section	3/19/2019	<0.017	<0.034	< 0.034	<0.068	<0.068	<3.4	<10	<50	<50	<30
S Wall West Section	3/19/2019	<0.021	<0.041	<0.041	<0.083	<0.083	4.2	610	1,200	1,814.2	<30
S Wall East Section	3/19/2019	<0.026	<0.053	<0.053	0.11	0.11	<5.3	230	680	910	<30
E Wall South Section	3/19/2019	<0.019	<0.038	<0.038	<0.075	<0.075	<3.8	83	140	223	<30
N of Panel East Side	3/25/2019	<0.020	<0.040	<0.040	<0.079	<0.079	<4.0	<9.4	<47	<47	<60
N of Panel West Side	3/25/2019	<0.019	<0.038	<0.038	<0.076	<0.076	<3.8	<10	<51	<51	<60
East of Fence South Section	3/25/2019	<0.021	<0.043	<0.043	<0.085	<0.085	<4.3	16	<50	16	<60
NMOCD Remediation Action L	ovolc	10	NE	NE	NE	50	NE	NE	NE	100	600

Notes:

otes: bgs - below ground surface BTEX - benzene, toluene, ethylbenzene, and total xylenes mg/kg - milligrams per kilogram NE - not established

MOCD - New Mexico Oil Conservation Division TPH - total petroleum hydrocarbons Bold - indicates result exceeds NMOCD remediation action level < - indicates result is below laboratory reporting limits





Instrument: Dante (Offline) Sample ID: PARAFFIN

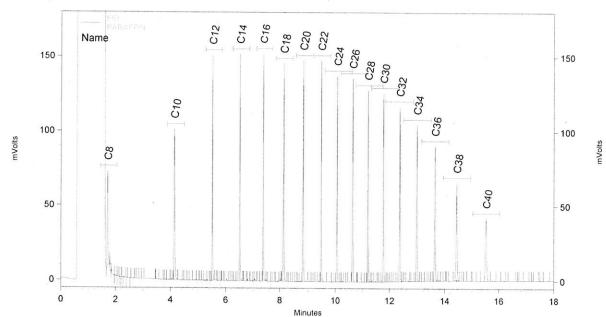
Vial #: 2 Data Description: SV195-3212

User: System

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7-46-29 AM.dat

Aquired: 3/20/2019 7:52:27 AM



LABORATORY N-ALKANE STANDARD

TID Results			
Name	Retention Time	Area	ug/ml
C8	1.707	125579	0.000
C10	4.128	196064	0.000
C12	5.504	198846	0.000
C14	6.507	199040	0.000
C16	7.365	198116	0.000
C18	8.128	193091	0.000
C20	8.827	196666	0.000
C22	9.467	198859	0.000
C24	10.064	196799	0.000
C26	10.635	199686	0.000
C28	11.200	194243	0.000
C30	11.771	193118	0.000
C32	12.363	192278	0.000
C34	12.981	184938	0.000
C36	13.632	176200	0.000
C38	14.437	153931	0.000
C40	15.520	132894	0.000

Analyst

Reviewed By _____

FID Results

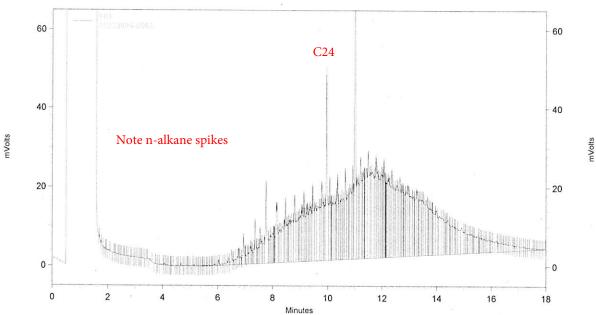
Instrument: Dante (Offline) Sample ID: 19033896-006A

Vial #: 12 User: System Data Description: SOIL RUSH SAME DAY X1 RE-RUN

Method: H:\EZsemi\8015dro\DATA\Dante\Method\052319.met

File: H:\EZsemi\8015dro\DATA\Dante\Data 2019\March 2019\032019\1903896-006A X1 3-20-2019 12-41-02 PM.dat

Aquired: 3/20/2019 12:46:50 PM





Retention Time	Area	ug/ml
11.003	406013	13.633
	2292748	75.619
	3413420	139.843
		11.003 406013 2292748

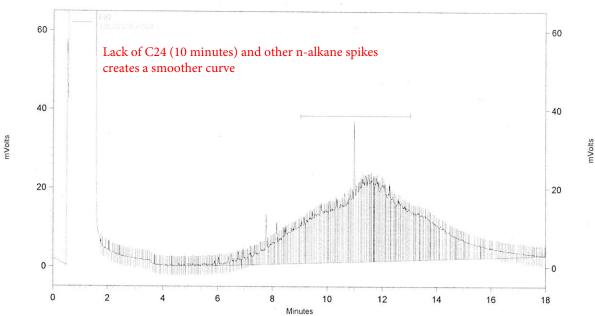
Analyst

Reviewed By

Instrument: Dante (Offline) Sample ID: 19033896-002A

Vial #: 8 User: System Data Description: SOIL RUSH SAME DAY X10

Method: H:\EZsemi\8015dro\DATA\Dante\Method\052319.met File: H:\EZsemi\8015dro\DATA\Dante\Data\Data 2019\March 2019\032019\1903896-002A X10 3-20-2019 11-04-13 AM.dat Aquired: 3/20/2019 11:10:10 AM



S WALL WEST SECTION - HISTORICAL RELEASE

Name	Retention Time	Area	ug/ml
DNOP	10.997	129156	4.397
DRO		1850793	61.042
MRO		2927368	119.819

Analyst ____

FID Results

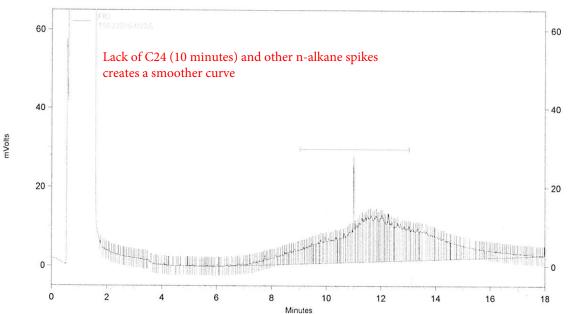
Reviewed By _____

Instrument: Dante (Offline) Sample ID: 19033896-003A

Vial #: 9 User: System Data Description: SOIL RUSH SAME DAY X10

mVolts

Method: H:\EZsemi\8015dro\DATA\Dante\Method\052319.met File: H:\EZsemi\8015dro\DATA\Dante\Data\Data 2019\March 2019\032019\1903896-003A X10 3-20-2019 11-28-19 AM.dat Aquired: 3/20/2019 11:34:25 AM



S WALL EAST SECTION - HISTORICAL RELEASE

FID Results				
Name	Retention Time	Area	ug/ml	
DNOP	11.008	77049	2.670	
DRO		718141	23.719	
MRO		1715217	69.882	

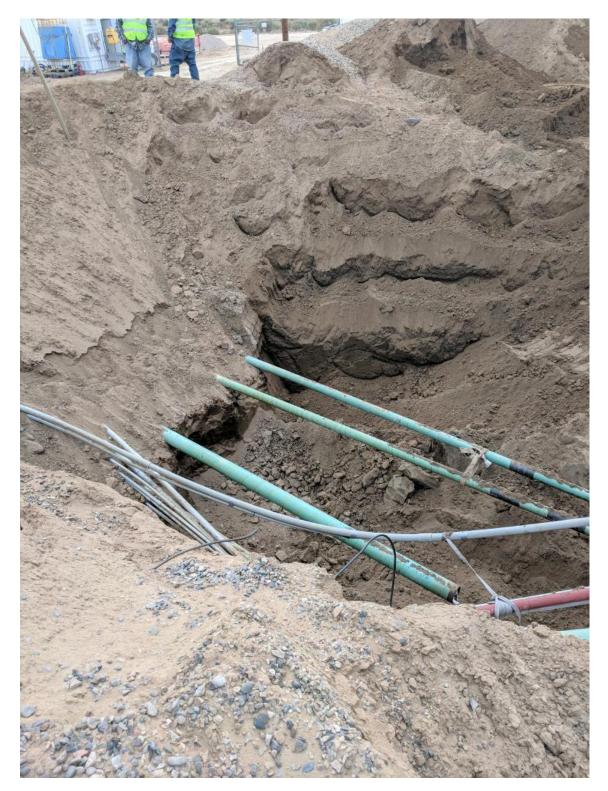
Analyst

Reviewed By





East side of area 1 inside of tank berm looking west (Figure 2).



East side of excavated area 1 just inside tank berm looking west (Figure 2)



Southwest corner of excavation looking northeast (Figure 3).



Scraped Area on north side of excavation looking east (Figure 2).



South-east edge of excavation looking south toward adjacent operators equipment and pipeline (Figure 4).



North-east edge of excavation looking south (Figure 4).



East edge of excavation looking south-west (Figure 4).





Analytical Report

Report Summary

Client: Western Refining Wholesale Chain Of Custody Number: Samples Received: 9/13/2018 4:58:00PM Job Number: 07232-0026 Work Order: P809027 Project Name/Location: Hospah

Walter Hinkimm

Date: 9/18/18

Report Reviewed By:

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Date: 9/18/18



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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envirotech-inc.com laboratory@envirotech-inc.com

Page 1 of 28



Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/18/18 12:01

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S. Trench Sec. 1 Bottom	P809027-01A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 2 Bottom	P809027-02A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 1 Wall	P809027-03A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 2 Wall	P809027-04A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 1 Under Slab	P809027-05A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 2 Under Slab	P809027-06A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 2 Under Slab Grab	P809027-07A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 1 Under Slab Grab	P809027-08A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 3 Bottom	P809027-09A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 4 Bottom	P809027-10A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 3 Wall	P809027-11A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 4 Wall	P809027-12A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 3-4 Under Slab	P809027-13A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 3-4 Under Slab Grab	P809027-14A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 5 E. Wall	P809027-15A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 5 W. Wall	P809027-16A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 5 Bottom	P809027-17A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 5 E. Wall Grab	P809027-18A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.
S. Trench Sec. 5 W. Wall Grab	P809027-19A	Soil	09/13/18	09/13/18	Glass Jar, 4 oz.

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Western Refining Wholesale	Project	Name:	Hosp	oah						
PO Box 62558	Project Number:		07232-0026					Reported:		
Phoenix AZ, 85082	Project Manager: Fe			e Aragon				09/18/18 12:01		
		S. Trencl	1 Sec. 1	Bottom						
			27-01 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		99.2 %	50	-150	1837029	09/14/18	09/14/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/14/18	EPA 8015D		
Diesel Range Organics (C10-C28)	30.5	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.5 %	50	-150	1837029	09/14/18	09/14/18	EPA 8015D		
Surrogate: n-Nonane		109 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/14/18	EPA 300.0/9056A		

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project Number:		0723	2-0026		Reported:			
Phoenix AZ, 85082	Project Manager: Felipe Ar			e Aragon				09/18/18 12:01	
		S. Trencl	h Sec. 2	Bottom					
			27-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	50	-150	1837029	09/14/18	09/14/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/14/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	50	-150	1837029	09/14/18	09/14/18	EPA 8015D	
Surrogate: n-Nonane		107 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/14/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	t Name:	Hosp	oah					
PO Box 62558	Project Number: Project Manager:		0723	2-0026				Reported:	
Phoenix AZ, 85082			Felip	e Aragon				09/18/18 12:01	
		S. Tren	ch Sec. 1	Wall					
		P8090	27-03 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.8 %	50	-150	1837029	09/14/18	09/14/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/14/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	50	-150	1837029	09/14/18	09/14/18	EPA 8015D	
Surrogate: n-Nonane		110 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/14/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project Number: Project Manager:		0723	2-0026				Reported:	
Phoenix AZ, 85082			Felip	e Aragon		09/18/18 12:01			
		S. Tren	ch Sec. 2	2 Wall					
			27-04 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.7 %	50	-150	1837029	09/14/18	09/14/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/14/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/17/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/17/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	50	-150	1837029	09/14/18	09/14/18	EPA 8015D	
Surrogate: n-Nonane		118 %	50	-200	1837034	09/14/18	09/17/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/14/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project Number:		0723	2-0026		Reported:			
Phoenix AZ, 85082	Project	Felip	e Aragon		09/18/18 12:01				
	5	S. Trench S	Sec. 1 Ur	nder Slab					
		P8090	27-05 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50	-150	1837029	09/14/18	09/14/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/14/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	50	-150	1837029	09/14/18	09/14/18	EPA 8015D	
Surrogate: n-Nonane		112 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/14/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felipe Aragon		09/18/18 12:01				
	S	S. Trench S	Sec. 2 Ur	nder Slab					
		P8090	27-06 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/14/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50	-150	1837029	09/14/18	09/14/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/14/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.2 %	50	-150	1837029	09/14/18	09/14/18	EPA 8015D	
Surrogate: n-Nonane		109 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/14/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	0723	2-0026	Reported: 09/18/18 12:01					
Phoenix AZ, 85082	Project	ject Manager: Felipe Aragon							
	S. 7	French Sec.	2 Unde	r Slab Gr	ab				
		P8090	27-07 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	4720	1000	ug/kg	10	1837029	09/14/18	09/14/18	EPA 8021B	
Toluene	40900	1000	ug/kg	10	1837029	09/14/18	09/14/18	EPA 8021B	
Ethylbenzene	17100	1000	ug/kg	10	1837029	09/14/18	09/14/18	EPA 8021B	
p,m-Xylene	76300	2000	ug/kg	10	1837029	09/14/18	09/14/18	EPA 8021B	
o-Xylene	29600	1000	ug/kg	10	1837029	09/14/18	09/14/18	EPA 8021B	
Total Xylenes	106000	1000	ug/kg	10	1837029	09/14/18	09/14/18	EPA 8021B	
Total BTEX	169000	1000	ug/kg	10	1837029	09/14/18	09/14/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	-150	1837029	09/14/18	09/14/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	1010	200	mg/kg	10	1837029	09/14/18	09/14/18	EPA 8015D	
Diesel Range Organics (C10-C28)	47400	500	mg/kg	20	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	7610	1000	mg/kg	20	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	50-	-150	1837029	09/14/18	09/14/18	EPA 8015D	
Surrogate: n-Nonane		1010 %	50-	-200	1837034	09/14/18	09/14/18	EPA 8015D	Surr2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project	Number:	07232-0026				Reported:		
Phoenix AZ, 85082	Project	Project Manager:			Felipe Aragon				
	S. 7	French Sec.	. 1 Unde	r Slab Gr	ab				
		P8090	27-08 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	50	-150	1837029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	50	-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		110 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/18/18 12:0	01
		S. Trencl	1 Sec. 3 I	Bottom					
		P8090	27-09 (Sa	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	-150	1837029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	76.3	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %	50-	-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		110 %	50-	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project Manager:		Felip	e Aragon				09/18/18 12:	01
		S. Trencl	n Sec. 4	Bottom					
		P8090	27-10 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1837029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	50	-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		106 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project Number: 07232-0026		2-0026				Reported:		
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/18/18 12:01	
		S. Tren	ch Sec. 3	Wall					
			27-11 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1837029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	40.1	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	50	-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		110 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project Manager:		Felip	e Aragon				09/18/18 12:01	
		S. Tren	ch Sec. 4	Wall					
			27-12 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1837029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	50	-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		108 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	

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Western Refining Wholesale	-	t Name:	Hosp						
PO Box 62558		t Number:		2-0026				Reported: 09/18/18 12:	
Phoenix AZ, 85082	-	t Manager:		e Aragon				09/08/18 12:	01
	S	5. Trench So)				
		Reporting	27-13 (Se	olid)				<u> </u>	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1837029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	52.4	25.0	mg/kg	1	1837034	09/14/18	09/17/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/17/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.4 %	50	-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		112 %	50	-200	1837034	09/14/18	09/17/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	
				0.15	0				
				Soll Fr	om Sar	nple Loc	ation Rei	moved	

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Western Refining Wholesale		t Name:	Hosp						
PO Box 62558	-	t Number:		32-0026				Reported:	
Phoenix AZ, 85082	Projec	t Manager:	Felip	be Aragon				09/18/18 12:	01
	S. T	rench Sec.			rab			/	
)27-14 (S	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	6520	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	56200	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	26200	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	116000	2000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	40100	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	156000	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	245000	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		96.6 %	50)-150	1877029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	1720	200	mg/kg	10	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	60000	1250	mg/kg	50	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	6130	2500	mg/kg	59	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %		150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		1590 %)-200	1837034	09/14/18	09/14/18	EPA 8015D	Surr2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA	
								300.0/9056A	
			5	Soil Fror	n Samr	ole Locati	ion Remo	ved	

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project Manager:		Felip	Felipe Aragon					01
		S. Trencl	n Sec. 5	E. Wall					
			27-15 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1837029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/14/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	50	-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		105 %	50	-200	1837034	09/14/18	09/14/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	

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Western Refining Wholesale	-	t Name:	Hosp						
PO Box 62558	0	t Number:		2-0026				Reported:	
Phoenix AZ, 85082	Projec	t Manager:	-	e Aragon				09/18/18 12:0)]
		S. Trench							
			27-16 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/13	09/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	9/14/18	09/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	183 029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	190	25.0	mg/kg	1	1837034	09/14/18	09/15/18	EPA 8015D	
Oil Range Organics (C28-C40+)	199	50.0	mg/kg	1	1837034	09/14/18	09/15/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	50	150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		124 %	50	-200	1837034	09/14/18	09/15/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA	
								300.0/9056A	
				Sc	oil From	Sample	Location	Removed	

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Western Refining Wholesale	· ·	t Name:	Hos	-					
PO Box 62558	-	t Number:		32-0026				Reported:	
Phoenix AZ, 85082	Projec	t Manager:	Felij	be Aragon				09/18/18 12:	01
		S. Trencl P8090	h Sec. 5)27-17 (S						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1837029	99/14/18	09/15/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50)-150	183/029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1837034	09/14/18	09/15/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1837034	09/14/18	09/15/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.9 %	50	0-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		111 %	50)-200	1837034	09/14/18	09/15/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA	
								300.0/9056A	
				Soi	I From	Sample	Location I	Removed	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project Manager:		Felip	e Aragon			09/18/18 12:	01	
	S	. Trench S	ec. 5 E. V	Wall Grab)				
		P8090	27-18 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	166	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	3560	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	2700	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	12800	200	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	4830	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	17600	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	24000	100	ug/kg	1	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	50	-150	1837029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	207	20.0	mg/kg	1	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	5260	125	mg/kg	5	1837034	09/14/18	09/15/18	EPA 8015D	
Oil Range Organics (C28-C40+)	786	250	mg/kg	5	1837034	09/14/18	09/15/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		119 %	50	-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		220 %	50	-200	1837034	09/14/18	09/15/18	EPA 8015D	Surr2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	

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Western Refining Wholesale		t Name:	Hosp	bah					
PO Box 62558	-	t Number:		2-0026				Reported:	
Phoenix AZ, 85082	Projec	t Manager:	Felip	e Aragon				09/18/18 12:	01
	S	. Trench Se)				
		Reporting	27-19 (Se	olid)			/		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021							7		
Benzene	1730	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Toluene	28200	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Ethylbenzene	14900	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
p,m-Xylene	68600	2000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
o-Xylene	26400	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Total Xylenes	95100	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Total BTEX	140000	1000	ug/kg	10	1837029	09/14/18	09/15/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1937029	09/14/18	09/15/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	853	200	mg/kg	10	1837029	09/14/18	09/15/18	EPA 8015D	
Diesel Range Organics (C10-C28)	20000	500	mg/kg	20	1837034	09/14/18	09/15/18	EPA 8015D	
Oil Range Organics (C28-C40+)	2630	1000	mg/kg	20	1837034	09/14/18	09/15/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	59	-150	1837029	09/14/18	09/15/18	EPA 8015D	
Surrogate: n-Nonane		752 %	50	-200	1837034	09/14/18	09/15/18	EPA 8015D	Surr2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1837033	09/14/18	09/15/18	EPA 300.0/9056A	
				Soil Fr	om San	nple Loc	ation Rer	noved	

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/18/18 12:01

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		nvn oteen r			atory					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1837029 - Purge and Trap EPA 5030A										
Blank (1837029-BLK1)				Prepared: (09/14/18 0 A	Analyzed: (09/14/18 1			
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
o,m-Xylene	ND	200	"							
p-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	7860		"	8000		98.2	50-150			
LCS (1837029-BS1)				Prepared: (09/14/18 0 A	Analyzed: (09/14/18 1			
Benzene	4110	100	ug/kg	5000		82.2	70-130			
Toluene	4230	100	"	5000		84.5	70-130			
Ethylbenzene	4310	100	"	5000		86.1	70-130			
o,m-Xylene	8890	200	"	10000		88.9	70-130			
o-Xylene	4350	100	"	5000		87.0	70-130			
Total Xylenes	13200	100	"	15000		88.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7830		"	8000		97.8	50-150			
Matrix Spike (1837029-MS1)	Sou	ırce: P809027-	01	Prepared: (09/14/18 0 A	Analyzed: (09/14/18 1			
Benzene	4970	100	ug/kg	5000	ND	99.4	54.3-133			
Toluene	5090	100	"	5000	ND	102	61.4-130			
Ethylbenzene	5170	100	"	5000	ND	103	61.4-133			
p,m-Xylene	10600	200	"	10000	ND	106	63.3-131			
p-Xylene	5130	100	"	5000	ND	103	63.3-131			
Total Xylenes	15800	100	"	15000	ND	105	63.3-131			
Matrix Spike Dup (1837029-MSD1)	Sou	ırce: P809027-	01	Prepared: (09/14/18 0 A	Analyzed: (09/14/18 1			
Benzene	4690	100	ug/kg	5000	ND	93.8	54.3-133	5.77	20	
Toluene	4810	100	"	5000	ND	96.3	61.4-130	5.49	20	
Ethylbenzene	4910	100	"	5000	ND	98.3	61.4-133	5.16	20	
o,m-Xylene	10100	200	"	10000	ND	101	63.3-131	5.02	20	
p-Xylene	4900	100	"	5000	ND	98.1	63.3-131	4.47	20	
Total Xylenes	15000	100	"	15000	ND	100	63.3-131	4.84	20	
Surrogate: 4-Bromochlorobenzene-PID	8010		"	8000		100	50-150			

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/18/18 12:01

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

			•		•					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1837029 - Purge and Trap EPA 5030A										
Blank (1837029-BLK1)				Prepared: (09/14/18 0 A	Analyzed: 0	9/14/18 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		"	8.00		94.2	50-150			
LCS (1837029-BS2)				Prepared:	09/14/18 0 A	Analyzed: 0	9/14/18 1			
Gasoline Range Organics (C6-C10)	47.9	20.0	mg/kg	50.0		95.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.68		"	8.00		96.0	50-150			
Matrix Spike (1837029-MS2)	Sou	rce: P809027-	01	Prepared:	09/14/18 0 A	Analyzed: 0	9/14/18 2			
Gasoline Range Organics (C6-C10)	31.8	20.0	mg/kg	50.0	ND	63.7	70-130			D1, SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.88		"	8.00		98.5	50-150			
Matrix Spike Dup (1837029-MSD2)	Sou	rce: P809027-	01	Prepared: (09/14/18 0 A	Analyzed: 0	9/14/18 2			
Gasoline Range Organics (C6-C10)	47.0	20.0	mg/kg	50.0	ND	93.9	70-130	38.4	20	D1
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		"	8.00		98. 3	50-150			

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/18/18 12:01

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

			J -		J					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1837034 - DRO Extraction EPA 3570										
Blank (1837034-BLK1)				Prepared &	k Analyzed:	09/14/18 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	59.8		"	50.0		120	50-200			
LCS (1837034-BS1)				Prepared &	k Analyzed:	09/14/18 1				
Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500		92.7	38-132			
Surrogate: n-Nonane	57.0		"	50.0		114	50-200			
Matrix Spike (1837034-MS1)	Sou	rce: P809027-	·01	Prepared &	k Analyzed:	09/14/18 1				
Diesel Range Organics (C10-C28)	551	25.0	mg/kg	500	30.5	104	38-132			
Surrogate: n-Nonane	59.0		"	50.0		118	50-200			
Matrix Spike Dup (1837034-MSD1)	Sou	rce: P809027-	·01	Prepared &	k Analyzed:	09/14/18 1				
Diesel Range Organics (C10-C28)	560	25.0	mg/kg	500	30.5	106	38-132	1.52	20	
Surrogate: n-Nonane	56.7		"	50.0		113	50-200			

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/18/18 12:01

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1837033 - Anion Extraction EPA 30	0.0/9056A									
Blank (1837033-BLK1)				Prepared: 0	9/14/18 0 A	Analyzed: 0	9/14/18 2			
Chloride	ND	20.0	mg/kg							
LCS (1837033-BS1)				Prepared: 0	9/14/18 0 A	Analyzed: 0	9/14/18 2			
Chloride	254	20.0	mg/kg	250		102	90-110			
Matrix Spike (1837033-MS1)	Sour	ce: P809027-	01	Prepared: 0	9/14/18 0 A	Analyzed: 0	9/14/18 2			
Chloride	257	20.0	mg/kg	250	ND	103	80-120			
Matrix Spike Dup (1837033-MSD1)	Sour	ce: P809027-	01	Prepared: 0	9/14/18 0 A	Analyzed: 0	9/14/18 2			
Chloride	258	20.0	mg/kg	250	ND	103	80-120	0.124	20	

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/18/18 12:01

Notes and Definitions

Surr2	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
SPK1	The spike recovery is outside of quality control limits.
D1	Duplicates or Matrix Spike Duplicates or Laboratory Control Sample Duplicates Relative Percent Difference is outside of control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

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Project Ir	ofor	matic	n				Chain of	Custody										P	age	of
				da sa	Report Attention Lab Use Only TAT					AT	EPA Program									
Project:	TES IL		4				Report due by:		Lab	WO		20.0		Num	ber	1D	3D	RCRA	CWA	SDWA
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Relinquished by: (Signature) Date Time Received by: (Signature)			Date		Tim	ne		T1 AV	G Te	mp °C_	4.0	2		<u></u> <u>T3</u>						
Sample M	atrive	6 Soil	Sd - Solid	Sa - Sludao	A - Aqueous,	0 - Other		Contair	ner Ty	/pe: g	g - gla	ss, p	- poly	y/pla	stic, ag	- amb	er gla	iss, v - VO	A	
Note: Sam	nles a	3 - 3011,	ad - 3010,	vs after res	ults are report	ed unless	other arrangements are made. Hazardous	samples will be	return	ed to d	client o	r dispo	osed o	f at th	e client e	xpense	. The r	eport for th	e analysis o	f the above
NOLE. Salli			•			boratory	with this COC. The liability of the laborao	trv is limited to t	the am	ountr	oaid fo	r on th	erebu	<i>.</i>						Concernant of the local division of the loca
->	e	n	vir	ot	ech		5796 US Highway 64. Fa	mington, NM 87401					Ph (50	5) 632-0	615 Fx (505)					envirotech-i
	4				boratory		Three Springs - 65 Merca	do Street, Suite 115, Du	rango, (O	81301			Ph (97	0) 259-0	615 Fr (800)	362-1879			labot	atory envirotech-i

Project Information Report Attention Lab Use Only TAT Client: Lab Sech Project: Char Beach Iob Number Iob Number ID 30 RCR/ Address: Adddress: Address: Address:	Page <u>2</u> of
Report due by: Lab WORF Job Number 1D 30 RCR/ operator Sec 5 Project: Manager: Fellor Attention: Analysis and Method Address: City, State, Zip PROPORT Do Normber ID 30 RCR/ operator Sec 5: Phone: Phone: Phone: Phone: To go	EPA Program
Project Manager: Fellor Attention: P&CA027 Coast 22 cross (×) × Address: Address: Address: Address: Address: Analysis and Method City, State, Zip Phone:	CWA SDW
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Email: Email: Imail: Imail: Time Date Matrix Normbers Sampled Matrix Number Sampled Matrix Normbers Sampled Matrix Number Sampled 10:56 9/15/15 5 1 S. Trench See 3 Walf II X X X 10:56 9/15/15 5 1 S. Trench See 3 Walf II X X X 10:56 9/15/15 5 1 S. Trench See 4 Walf II X X X 10:77 5 5. Trench See 3 Walf IS II II III X 10:77 5 5. Trench See 5 Walf III III III III III III III IIII IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	x
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0:57 S. Trench Sec 3-4 Weeker Stab Grab 14 6:57 S. Trench Sec 5 E. Well 15 1:08 S. Trench Sec 5 E. Well 116 1:08 S. Trench Sec 5 W. Well 116 1:01 S. Trench Sec 5 W. Well 117 1:11 S. Trench Sec 5 E. Well Grab 18 1:17 S. Trench Sec 5. W. Well Grab 18 1:17 S. Trench Sec 5. W. Well Grab 19	
1:04 S. Trench Sec 5 E. Wall 15 1:08 S. Trench Sec. 5 W. Wall III 1:08 S. Trench Sec. 5 W. Wall III 1:01 S. Trench Sec 5 Bottom 17 1:174 S. French Sec 5 E. Wall Earls 18 1:172 T S. Trench Sec 5. W. Wall Earls 19 J.	
1:58 S. Trench Sec. 5 W. Wall III III	
11:00 2. Morel The. 5 W. Well 11:01 Saterneh Sue 5 Bottom 17 11:01 S. French Sue 5 E. Well Breds 18 11:17	
11:14 S. French Soc 5 E. Well Breds 18 11:17 S. Trench Sec 5. W. Well Emb 19 J + + +	
1.19 J.	
1:52 S. Trench See S. W. Wall Stred	
Additional Instructions: V15 ile in cooler -y Chlorides shandord Trurn around	
Additional Instructions: Visile in cooler - my Chlorides shandord Turn around	
(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intervionally mislabeling the sample location, date or received packed in ice at an avg temp above 0 but less that tampering with or intervionally mislabeling the sample location, date or received packed in ice at an avg temp above 0 but less that tampering with or intervionally mislabeling the sample location, date or received packed in ice at an avg temp above 0 but less that tampering with or intervionally mislabeling the sample location, date or received packed in ice at an avg temp above 0 but less that tampering with or intervionally mislabeling the sample location, date or received packed in ice at an avg temp above 0 but less that tampering with or intervionally mislabeling the sample location, date or received packed in ice at an avg temp above 0 but less that tampering with or intervionally mislabeling the sample location, date or received packed in ice at an avg temp above 0 but less that tampering with or intervionally mislabeling the sample location with or intervionally mislabeling the sample location, date or received packed in ice at an avg temp above 0 but less that tampering with or intervionally mislabeling the sample location with or intervionally mislabeling the sample location with or intervional temp above 0 but less that tampering with or intervional temp above 0 but less that tampering with or intervional temp above 0 but less that tampering with or intervional temp above 0 but less that tampering with or intervional temp above 0 but less that tampering with or intervional temp above 0 but less that tampering with or intervional temp above 0 but less that tampering with or intervional temp above 0 but less that tampering with or intervional temp above 0 but less tampering with or intervional temp above 0 but less tampering with or intervional temp above 0 but less tampering with or intervional temp above 0 but less tampering with or intervional temp above 0 but less tampering with	
Relinguished by: (Signature) Date Time Received by: (Signature) Date Time Lab Use Only 112/188 1156 2000 2478 11658 Received on ice: 1 /0 N	
Relinquished by: (Signature) Date Time Received by: (Signature) Date Time T1 T2 AVG Temp °C 40	<u></u> <u>T3</u>
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - V	A
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for t	ne analysis of the above
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Analytical Report

Report Summary

Client: Western Refining Wholesale Chain Of Custody Number: Samples Received: 9/21/2018 9:13:00AM Job Number: 07232-0026 Work Order: P809046 Project Name/Location: Hospah

Walter Hinkin

Date:

9/24/18

Report Reviewed By:

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Date: 9/24/18



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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/24/18 15:38

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S. Trench Sec. 1 Under Slab Grab @ 4'	P809046-01A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
S. Trench Sec. 1 Under Slab #1	P809046-02A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
S. Trench Sec. 1 Under Slab #2	P809046-03A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
S. Trench Sec. 2 Under Slab #1	P809046-04A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
S. Trench Sec. 2 Under Slab #2	P809046-05A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
S. Trench Sec. 5 W. Wall	P809046-06A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
S. Trench Sec. 3-4 Under Slab #1	P809046-07A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
S. Trench Sec. 3-4 Under Slab #2	P809046-08A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
S. Trench Sec. 3-4 Under Slab #3	P809046-09A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
N. Trench Under Slab Composite	P809046-10A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
N. Trench Bottom	P809046-11A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
N. Trench Under Slab #1	P809046-12A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
N. Trench Under Slab #2	P809046-13A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
N. Trench Under Slab #3	P809046-14A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.
N. Trench Under Slab #4	P809046-15A	Soil	09/20/18	09/21/18	Glass Jar, 4 oz.

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Western Refining Wholesale	Project	t Name:	Hosp	oah					
PO Box 62558	Project	Number:	0723	2-0026	Reported:				
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:38	
	S. Tre	nch Sec. 1	Under S	lab Grab	@ 4'				
		P8090	46-01 (So	olid)	-				
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/21/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/21/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.1 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		110 %	50	-200	1838021	09/21/18	09/21/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project	Number:	0723	2-0026		Reported:			
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:3	38
	S.	Trench Se	ec. 1 Und	ler Slab #	1				
		P8090	46-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/21/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/21/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		107 %	50	-200	1838021	09/21/18	09/21/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project Name:		Hosp	oah					
PO Box 62558	Project Number: Project Manager:		07232-0026					Reported: 09/24/18 15:38	
Phoenix AZ, 85082			Felipe Aragon						
	S.	Trench Se	ec. 1 Und	ler Slab #2	2				
		P8090	46-03 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/21/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/21/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.6 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		109 %	50	-200	1838021	09/21/18	09/21/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:	38
	S.	Trench Se	ec. 2 Und	ler Slab #	1				
		P8090	46-04 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	422	25.0	mg/kg	1	1838021	09/21/18	09/21/18	EPA 8015D	
Oil Range Organics (C28-C40+)	350	50.0	mg/kg	1	1838021	09/21/18	09/21/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.0 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		126 %	50	-200	1838021	09/21/18	09/21/18	EPA 8015D	CV2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	ah						
PO Box 62558	Project	Number:	0723	2-0026				Reported:		
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:38		
	S.	Trench Se	c. 2 Und	ler Slab #2	2					
		P8090	46-05 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-	-150	1838020	09/21/18	09/22/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D		
Diesel Range Organics (C10-C28)	157	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D		
Oil Range Organics (C28-C40+)	187	50.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.6 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D		
Surrogate: n-Nonane		128 %	50	-200	1838021	09/21/18	09/22/18	EPA 8015D	CV2	
Anions by 300.0/9056A										
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A		

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Western Refining Wholesale	e e	t Name:	Hos						
PO Box 62558	e e	t Number:		32-0026				Reported:	
Phoenix AZ, 85082	Projec	t Manager:	Felip	be Aragon				09/24/18 15:	38
		S. Trench P8090	n Sec. 5 \)46-06 (Se						
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50)-150	1858020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	309	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	296	50.0	mg/kg		1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	5	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		129 %	50	0-200	1838021	09/21/18	09/22/18	EPA 8015D	CV2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	
				Soil F	From Sa	ample Lo	ocation Re	emoved	

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Western Refining Wholesale	-	t Name:	Hosj						
PO Box 62558	-	t Number:		32-0026				Reported:	
Phoenix AZ, 85082	2	t Manager:	-	be Aragon				09/24/18 15:	38
	S. ¹	Trench Seo P8090	2. 3-4 Un 146-07 (Se		#1				
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50)-150	1818020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.8 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		112 %	50)-200	1838021	09/21/18	09/22/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	
								300.0/9030A	
			So	oil From	Sample	e Locatio	on Remov	red	

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Western Refining Wholesale	-	t Name:	Hos	-					
PO Box 62558	-	t Number:		32-0026				Reported:	
Phoenix AZ, 85082	Projec	t Manager:	Felij	pe Aragon				09/24/18 15:	38
	S.	Trench Sec	e. <mark>3-4</mark> Ur)46-08 (S		#2				
		Reporting	140-00 (5	onu)			/		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21//8	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50)-150	1878020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	5(150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		109 %	50	0-200	1838021	09/21/18	09/22/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	
								500.07705011	
				0	0				
				5011 F	rom Sa		cation Rer	noved	

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DO D (2559	e e	Name:	Hosp	bah					
PO Box 62558	-	Number:	07232-0026				Reported:		
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:38	
	S. '	Trench Sec P8090	. 3-4 Un 46-09 (So		#3				
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50	-150	1838920	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	789	125	mg/kg	5	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	804	250	mg/kg	5	1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		127 %	50	-200	1838021	09/21/18	09/22/18	EPA 8015D	CV2
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	
			So	il From	Sample	Locatio	n Remov	ed	
			So	il From	Sample	Locatio	n Remov	ed	
			So	il From	Sample	Locatio	n Remov	ed	
			So	il From	Sample	Locatio	n Remov	ed	
			So	il From	Sample	Locatio	n Remov	ed	
			So	il From	Sample	Locatio	n Remov	ed	
			So	il From	Sample	Locatio	n Remov	ed	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:	38
	N. 7	French Un	der Slab	Composi	te				
		P8090	46-10 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.5 %	50-	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		115 %	50	-200	1838021	09/21/18	09/22/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:	38
		N. Tre	ench Bot	tom					
		P8090	46-11 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.1 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		111 %	50	-200	1838021	09/21/18	09/22/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:	38
		N. Trench	n Under	Slab #1					
		P8090	46-12 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.3 %	50-	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		112 %	50	-200	1838021	09/21/18	09/22/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:	38
		N. Trench	n Under	Slab #2					
		P8090	46-13 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		113 %	50-	-200	1838021	09/21/18	09/22/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:	38
		N. Trench	n Under	Slab #3					
		P8090	46-14 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		113 %	50-	-200	1838021	09/21/18	09/22/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				09/24/18 15:	38
		N. Trench	n Under	Slab #4					
		P8090	46-15 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1838020	09/21/18	09/22/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50	-150	1838020	09/21/18	09/22/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1838020	09/21/18	09/22/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1838021	09/21/18	09/22/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	50	-150	1838020	09/21/18	09/22/18	EPA 8015D	
Surrogate: n-Nonane		124 %	50	-200	1838021	09/21/18	09/22/18	EPA 8015D	CV4
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1838022	09/21/18	09/21/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/24/18 15:38

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	L	nvn oteen 7	marytr		atory					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1838020 - Purge and Trap EPA 5030A										
Blank (1838020-BLK1)				Prepared: ()9/21/18 0 A	Analyzed: (09/21/18 1			
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8090		"	8000		101	50-150			
LCS (1838020-BS1)				Prepared: ()9/21/18 0 A	Analyzed: (09/21/18 2			
Benzene	4790	100	ug/kg	5000		95.7	70-130			
Toluene	4950	100	"	5000		99.0	70-130			
Ethylbenzene	5050	100	"	5000		101	70-130			
p,m-Xylene	10400	200	"	10000		104	70-130			
o-Xylene	5000	100	"	5000		99.9	70-130			
Total Xylenes	15400	100	"	15000		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8100		"	8000		101	50-150			
Matrix Spike (1838020-MS1)	Sou	ırce: P809045-	01	Prepared: ()9/21/18 0 A	Analyzed: (09/21/18 2			
Benzene	4760	100	ug/kg	5000	ND	95.2	54.3-133			
Toluene	4970	100	"	5000	ND	99.3	61.4-130			
Ethylbenzene	5090	100	"	5000	ND	102	61.4-133			
p,m-Xylene	10400	200	"	10000	ND	104	63.3-131			
o-Xylene	5040	100	"	5000	ND	101	63.3-131			
Total Xylenes	15500	100	"	15000	ND	103	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8070		"	8000		101	50-150			
Matrix Spike Dup (1838020-MSD1)	Sou	ırce: P809045-	01	Prepared: (09/21/18 0 A	Analyzed: (09/21/18 2			
Benzene	4790	100	ug/kg	5000	ND	95.8	54.3-133	0.672	20	
Toluene	5000	100	"	5000	ND	99.9	61.4-130	0.615	20	
Ethylbenzene	5120	100	"	5000	ND	102	61.4-133	0.658	20	
p,m-Xylene	10500	200	"	10000	ND	105	63.3-131	0.614	20	
o-Xylene	5080	100	"	5000	ND	102	63.3-131	0.784	20	
Total Xylenes	15600	100	"	15000	ND	104	63.3-131	0.669	20	
Surrogate: 4-Bromochlorobenzene-PID	8150		"	8000		102	50-150			

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/24/18 15:38

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

			•		•							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch 1838020 - Purge and Trap EPA 5030A												
Blank (1838020-BLK1)				Prepared: 09/21/18 0 Analyzed: 09/21/18 1								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg									
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		"	8.00		97.5	50-150					
LCS (1838020-BS2)				Prepared:	09/21/18 0 4	Analyzed: 0	9/21/18 2					
Gasoline Range Organics (C6-C10)	49.7	20.0	mg/kg	50.0		99.5	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		"	8.00		98. <i>3</i>	50-150					
Matrix Spike (1838020-MS2)	Sou	rce: P809045-	01	Prepared:	09/21/18 0 4	Analyzed: 0	9/21/18 2					
Gasoline Range Organics (C6-C10)	50.0	20.0	mg/kg	50.0	ND	100	70-130					
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.84		"	8.00		98.0	50-150					
Matrix Spike Dup (1838020-MSD2)	Source: P809045-01			Prepared:	09/21/18 0 /	Analyzed: 0	9/21/18 2					
Gasoline Range Organics (C6-C10)	49.6	20.0	mg/kg	50.0	ND	99.1	70-130	0.847	20			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		"	8.00		98. 3	50-150					

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/24/18 15:38

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD				
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes			
Batch 1838021 - DRO Extraction EPA 3570													
Blank (1838021-BLK1)				Prepared & Analyzed: 09/21/18 1									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg										
Oil Range Organics (C28-C40+)	ND	50.0	"										
Surrogate: n-Nonane	55.5		"	50.0		111	50-200			CV4			
LCS (1838021-BS1)				Prepared &	k Analyzed:	09/21/18 1							
Diesel Range Organics (C10-C28)	444	25.0	mg/kg	500		88.8	38-132						
Surrogate: n-Nonane	56.2		"	50.0		112	50-200			CV2			
Matrix Spike (1838021-MS1)	Sou	irce: P809045-	01	Prepared &	k Analyzed:	09/21/18 1							
Diesel Range Organics (C10-C28)	448	25.0	mg/kg	500	ND	89.5	38-132						
Surrogate: n-Nonane	56.7		"	50.0		113	50-200			CV2			
Matrix Spike Dup (1838021-MSD1)	Source: P809045-01			Prepared &	k Analyzed:	09/21/18 1							
Diesel Range Organics (C10-C28)	440	25.0	mg/kg	500	ND	88.0	38-132	1.69	20				
Surrogate: n-Nonane	57.6		"	50.0		115	50-200			CV2			

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/24/18 15:38

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

			-		-							
		Reporting		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 1838022 - Anion Extraction EPA 300	0.0/9056A											
Blank (1838022-BLK1)				Prepared & Analyzed: 09/21/18 1								
Chloride	ND	20.0	mg/kg									
LCS (1838022-BS1)				Prepared &	Analyzed:	09/21/18 1						
Chloride	258	20.0	mg/kg	250		103	90-110					
Matrix Spike (1838022-MS1)	Sour	ce: P809046-	01	Prepared &	Prepared & Analyzed: 09/21/18 1							
Chloride	259	20.0	mg/kg	250	ND	103	80-120					
Matrix Spike Dup (1838022-MSD1)	Sour	ce: P809046-	01	Prepared & Analyzed: 09/21/18 1								
Chloride	261	20.0	mg/kg	250	ND	104	80-120	0.942	20			

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	09/24/18 15:38

Notes and Definitions

CV4	CV recovery was above quality control limits. This target analyte was not detected in the sample.
CV2	CV recovery was above quality control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

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Project	Informati	ion				Chain of Cu	ustody										F	age 🦯	of
			hoksal	e		Report Attention		1		La	b Us	e On	ly			TAT	E	PA Progra	am 7
Project:	Hasp	ah			<u>R</u>	eport due by:			WO			Job N			Same	1D 3D	RCRA	CWA	SDW 0
Project	Manager	Felip	r		A	ttention:		P809046 07232-002				526	$\boldsymbol{\chi}$	X		33			
Address	:				A	ddress:					A	nalys	is ar	nd Me	tho	d.		Sta	ate ge
City, Sta	te, Zip					ity, State, Zip		15	15		-							NM CO	UTA
Phone:	/				P	hone:		y 80	y 8015	1	0		0.0			2		V	
Email: 🕻	irane	- / Fe	lipe		<u>E</u>	mail:		RO b	RO b	/ 802	826	601(e 30	418.1				X	
Time Sampled	Date Sampled	Matrix	No Containers	Sample I	D	-	Lab Number	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 41				Ren	narks
10:01	9/10/18	5	l	S.Tiz	uch Sec	. I Under Slak grab Q -1'	1	X	X	Х			X						15-85
10:24	1			S.TIE	ich Sec.	/ Under Slab #1	2			1			-						
10:37				S.Tren	ich Scel	Under Slab #2	3							3					
10:46				5. Tree	whe Sec	2 Under Slab # 1	4												
10:59				S.Tren	ich Sec.	2 Under Slab #2	5						$\left \right $						
11:05				S. Tieu	ich Sec.	5 W. Wall	6											3-da	y Rush
11:14				S. Treu	ich See	3-4 chudes Slab # 1	7												
11:19				S. Tien	ich See.	3-4 Under Slab # 2	8												
11:44				S.Tra	ech Sec	. 3-4 Under Slab # 3	9				-								
11:54	2		d	N.Tre	uch Un	who slab composite	10	1	Ł	Y			L					3-day	Rush
Additio	nal Instru	uctions:	vis.i	ce in	cooler-M	9												U	
					le. I am aware the action. Sampled	at tampering with or intentionally mislabelling the	sample location	, date o	r					210-22-22				ce the day they a 'C on subsequent	
Relinquis	ned by: (Sig	gnature)	— Date	2///8	Time 9:08	Received by: (Signature)	Date 9-21-1	8	Time	:13		Rece	iveo	d on i	ce:	Lab U	se Only N		
Relinquis	ned by: (Sig	gnature)	Date		Time	Received by (Signature)	Date		Time			T1 AVG				T2		<u>T3</u>	
Sample Ma	atrix: S - Soil,	, Sd - Solid,	Sg - Sludge,	A - Aqueous	, 0 - Other		Containe	r Typ	e: g -	glas							s, v - VOA		
Note: Sam	oles are disc	arded 30 da	avs after resu	ults are repo		er arrangements are made. Hazardous sam								client e	expen	se. The rep	oort for the	analysis of th	e above
>	on	vir	ot.	ack	boratory wit	th this COC. The liability of the laboraotry i		e amou	unt pai	id for a	on the	report.						Contractor of	with optimized and
->			ote			5796 US Highway 64, Farming			-		and the community of	Ph (505) 6							envirotech-inc.c
	1	Analyti	cal Lat	oorator	У	Three Springs • 65 Mercado Str	reet, Suite 115, Duran	go, CO 81	301			Ph (970) 2	59-0615	5 Fr (800) 362-1	879		laboratory	@envirotech-inc.c

Project Information	Chain of	Custody											Ра	ge <u>2</u>	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Client: Western Whoksala	Report Attention				La	b Us	se Or	nly			TAT	-	EP	A Progra	
Project: Haspeh Project Manager: Felipe	Report due by:		Lab	WO	#,		Job	Num	nber	Sec. 1	1D 30	D RC	RA	CWA	SDW
Project Manager: Felipe	Attention:		P8	;091	046				- 00			×	<		
Address:	Address:		-			ł	Analy	sis ar	nd Me	etho	d 🚽			Sta NM CO	ate
City, State, Zip	City, State, Zip		15	15			_						22	NM CO	UT A
Phone:	Phone:		y 80	y 80	5			0.0						X	
Email: Oscar / Falipe	Email:		RO b	RO b	y 802	826	6010	e 30(8.1					^	
Time Date Matrix No Containers Sample ID		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1					Rem	narks
11:59 9/20/18 5 1 N. Tron	he Bottom	11	X	×	x			х			1.1			3-212	y Rus
12:08 N. Tienc	he Under Stab # 1	12			1										
12:16 N. Treus	h Under Slab # 2 ch Under Slab # 2 ch Under Slab # 3 ch Under Slab # 3	13													
12:24 N. Tiend	ch Under Slab# 3	14													-
12:32 + + N. Tren	ch Under Stab # 4	15	1	7	1	•		1							
															÷
					-										
Additional Instructions: Vis. ice in cool	or -m														
(field sampler), attest to the validity and authenticity of this sample. I an			date o	or										the day they a on subsequent	
time of collection is considered fraud and may be grounds for legal action	Sampled by: Elscence Gareis	د			_		receive	a packe	a inne a	. un avg		5 Dut 1855 1		on subsequent	uays.
Relinguished by: (Signature) Date Time	Received by: (Signature) :08	Date 09-21-	18	Time 9:	13		Rec	eive	d on	ice:	Lab	Use Or / N	nly		
Relinquished by: (Signature) Date Time		Date		Time			<u>T1</u>		np °C		T2			<u>T3</u>	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - C	Other	Containe	r Typ	e:g-	- glas	s, p -	And Management		10 0		511-	ass, v - V	VOA		
Note: Samples are discarded 30 davs after results are reported u	nless other arrangements are made. Hazardous s	amples will be ret	turned	to cli	ent or	dispo	sed of	at the	10.00	-	V/TEC			alysis of th	e above
	ratory with this COC. The liability of the laboraot		e amou	unt pa	id for	on the	repor	t.							
	5796 US Highway 64, Farm	ington NM 87401					06 (505)	623 061	5 Fx (50	51622 1	339				envirotech



Analytical Report

Report Summary

Client: Western Refining Wholesale Chain Of Custody Number: Samples Received: 9/27/2018 4:15:00PM Job Number: 07232-0026 Work Order: P809065 Project Name/Location: Hospah

Walter Hinkin

Date:

10/1/18

Report Reviewed By:

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Date: 10/1/18



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envirotech-inc.com laboratory@envirotech-inc.com



Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	10/01/18 15:04

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Excavation #1 W. Wall	P809065-01A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
Excavation #1 Bottom	P809065-02A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
Excavation #1 N. Wall	P809065-03A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
Excavation #1 E. Wall	P809065-04A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
Excavation #1 Shelf	P809065-05A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
N. Trench Wall	P809065-06A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
S. Trench Sec. 2 Under Slab #2-2	P809065-07A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
S. Trench Sec. 2 Under Slab #1-2	P809065-08A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
S. Trench Sec. 3-4 Under Slab #3-2	P809065-09A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
Excavation #2 Bottom	P809065-10A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
Excavation #2 W. Wall	P809065-11A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.
Excavation #2 S. Wall	P809065-12A	Soil	09/27/18	09/27/18	Glass Jar, 4 oz.

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Western Refining Wholesale	Project	Name:	Hosp	ah						
PO Box 62558	Project	Number:	0723	2-0026				Reported:		
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				10/01/18 15:04		
		Excavat	ion #1 W	/. Wall						
			65-01 (Se	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1839021	09/28/18	09/28/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D		
Diesel Range Organics (C10-C28)	32.5	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.7 %	50	-150	1839021	09/28/18	09/28/18	EPA 8015D		
Surrogate: n-Nonane		98.0 %	50	-200	1839023	09/28/18	09/28/18	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A		

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Western Refining Wholesale	Project	Name:	Hosp	oah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				10/01/18 15:	04
		Excavat							
			65-02 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50	-150	1839021	09/28/18	09/28/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	50	-150	1839021	09/28/18	09/28/18	EPA 8015D	
Surrogate: n-Nonane		98.2 %	50	-200	1839023	09/28/18	09/28/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A	

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Western Refining Wholesale	-	t Name:	Hosp						
PO Box 62558	-	t Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Projec	t Manager:	Felip	e Aragon				10/01/18 15:0	04
		Excavat	ion #1 N	I. Wall					
		P8090	65-03 (Se	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1839/21	09/28/18	09/28/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	50	-150	1839021	09/28/18	09/28/18	EPA 8015D	
Surrogate: n-Nonane		96.8 %		-200	1839023	09/28/18	09/28/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A	
								500.0/7050A	
				Soil Fr	om Sar	nple I oc	ation Rer	noved	
				50.11	en eu				

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Western Refining Wholesale	Project	Name:	Hosp	ah						
PO Box 62558	Project	Number:	0723	2-0026				Reported:		
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon					04	
		Excavat	ion #1 E	. Wall						
			65-04 (So	olid)						
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1839021	09/28/18	09/28/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D		
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.0 %	50	-150	1839021	09/28/18	09/28/18	EPA 8015D		
Surrogate: n-Nonane		98.6 %	50	-200	1839023	09/28/18	09/28/18	EPA 8015D		
Anions by 300.0/9056A										
Chloride	ND	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A		

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Western Refining Wholesale		t Name:	Hos	-					
PO Box 62558	e e	t Number:		32-0026				Reported:	
Phoenix AZ, 85082	Projec	t Manager:	Felip	pe Aragon				10/01/18 15:	04
			ation #1)65-05 (Se						
		Reporting		,			/		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021		-				1			
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	0-150	1859021	09/28/18	09/28/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D	
Diesel Range Organics (C10-C28)	122	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	63.0	50.0	mg/kg		1839023	09/28/18	09/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %	5	-150	1839021	09/28/18	09/28/18	EPA 8015D	
Surrogate: n-Nonane		97.6 %	50	0-200	1839023	09/28/18	09/28/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A	
			So	il From	Sample	Locatio	n Remove	ed	

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Western Refining Wholesale	Project Name:		Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				10/01/18 15:0)4
		N. T	rench W	all					
		P8090	65-06 (Sc	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50	-150	1839021	09/28/18	09/28/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	50.0	mg/kg	2	1839023	09/28/18	09/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	100	mg/kg	2	1839023	09/28/18	09/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.9 %	50-	-150	1839021	09/28/18	09/28/18	EPA 8015D	
Surrogate: n-Nonane		93.1 %	50	-200	1839023	09/28/18	09/28/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A	

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Western Refining Wholesale	Projec	t Name:	Hos	nah					
PO Box 62558		t Number:	-	32-0026				Reported:	
Phoenix AZ, 85082	-	t Manager:		e Aragon				10/01/18 15:	
	<u> </u>	Trench Sec	c. 2 Under Slab #2-2						
	5.		65-07 (S		-2				
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	50	-150	1879021	09/28/18	09/28/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D	
Diesel Range Organics (C10-C28)	499	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	612	50.0	mg/kg	/	1839023	09/28/18	09/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.3 %	50	-150	1839021	09/28/18	09/28/18	EPA 8015D	
Surrogate: n-Nonane		119 %	50	-200	1839023	09/28/18	09/28/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A	
			Soil From Sample Location Removed						

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PO Box 62558 Phoenix AZ, 85082 Project Number: Project Manager: 07232-0026 Felipe Aragon Reparted: 10/11/18 15:04 S. Trench Sec. 2 Under Slab #1-2 P809065-08 (Solid) Strench Sec. 2 Under Slab #1-2 P809065-08 (Solid) Strench Sec. 2 Under Slab #1-2 P809065-08 (Solid) Analyte Result Limit Units Dilution Batch Prepared Analyted Method Notes Volatile Datacene ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Benzene ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Ethylbenzene ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Onylene ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Stargette: AD 100 ug/kg 1 1839021 09/28/18 EPA 8021B Stargette: ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Stargette: ND 100 ug/kg			. 37						/	
Photenix AZ, \$5082 Project Manager: Felipe Aragon 100/01/1815.04 S. Trench Sec: 2 Under Slave	Western Refining Wholesale	Project Name:		-						
S. Trench Sec. 2 Under Slab #1-2 P809065-08 (Solid) Reparting Analyte Reparting Analyte Reparting Notes Volatile Organics by EPA 8021 Bearane ND 100 ug/kg 1 1839021 09/28/18 PPA 8021B Formation of the start of the star		-								
PB09065-08 (Solitor Reporting Reporting Valuation of the proper of the properoof the properoof the properoof the properoof the properoof the properof the properoof the properoof the properoof the prope	Phoenix AZ, 85082	Projec	t Manager:	Felip	be Aragon				10/91/18 15:	04
Analyte Reporting Analyte Result Limit Units Dilution Batch Prepared Analyted Method Notes Volatile Organics by EPA 8021 Benzane ND 100 ug/sg 1 1839021 09/28/18 09/28/18 EPA 8021B Educate ND 100 ug/sg 1 1839021 09/28/18 09/28/18 EPA 8021B Eduptone ND 100 ug/sg 1 1839021 09/28/18 09/28/18 EPA 8021B Schuptene ND 200 ug/sg 1 1839021 09/28/18 09/28/18 EPA 8021B Schuptene ND 100 ug/sg 1 1839021 09/28/18 09/28/18 EPA 8021B Total Xylenes ND 100 ug/sg 1 1839021 09/28/18 09/28/18 EPA 8021B Start Schupen ND 100 ug/sg 1 1839021 09/28/18 EPA 8021B Staregatet: ABromochlorobertcone-PI		S.				-2				
Volatile Organics by EPA 8021 Volatile Organics by EPA 8021 Foluene ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Foluene ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Ethylbenzene ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B op,m-Xylene ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Sylene ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Total Xylenes ND 100 ug/kg 1 1839021 09/28/18 EPA 8021B Surrogate: -Bromochlorobenzene-PID 98.3 % 50-150 1839021 09/28/18 EPA 8021B Surrogatic: -Bromochlorobenzene-PID 98.3 % 50-150 1839021 09/28/18 EPA 8015D Oblesel Range Organics (Clo-Clo) ND 20.0 mg/kg 1 1839023 09/28/18 EPA 8015D				(
Benzene ND 100 ug/kg 1 1839021 9928/18 EPA 8021B Foluene ND 100 ug/kg 1 1839021 0928/18 0928/18 EPA 8021B Ethylbenzene ND 100 ug/kg 1 1839021 0928/18 0928/18 EPA 8021B p,m-Xylene ND 200 ug/kg 1 1839021 0928/18 0928/18 EPA 8021B >-Xylene ND 100 ug/kg 1 1839021 0928/18 0928/18 EPA 8021B -Sylene ND 100 ug/kg 1 1839021 0928/18 0928/18 EPA 8021B Total Xylenes ND 100 ug/kg 1 1839021 0928/18 0928/18 EPA 8021B Surrogate: +Bromochlorobenzene-PID 98.3 % 50-150 1839021 0928/18 0928/18 EPA 8015D Dicest Range Organics (C6-C10) ND 20.0 mg/kg 1 1839021 0928/18 0928/18 EP	Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Toluene ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B Ethylbenzene ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B p.mXylene ND 200 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B p.mXylene ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B pXylene ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B Total Xylenes ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B Surrogate: 4-Bromochlorobenzene-PID 98.3 % 50-150 1839021 09/28/18 09/28/18 EPA 8015D Diesel Range Organics (C10-C28) 2000 ng/kg 1 1839023 09/28/18 09/28/18 EPA 8015D Surrogate: 1-Chloro-4-fluorobenzene-FID 97.2 % 50-150 1839023 09/28/18	Volatile Organics by EPA 8021									
Birlylbenzene ND 100 ug/k 1 1839021 09/28/18 EPA 8021B p,m-Xylene ND 200 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B p-Xylene ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B p-Xylene ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B Total Xylenes ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B Surrogate: +Bromochlorobenzene-PID 98.3 % 50-150 1839021 09/28/18 09/28/18 EPA 8021B Surrogate: +Bromochlorobenzene-PID 98.3 % 50-150 1839021 09/28/18 09/28/18 EPA 8015D Dilesel Range Organics (C10-C28) 2090 25.0 mg/kg 1 1839023 09/28/18 09/28/18 EPA 8015D Surrogate: 1-Chloro-4-fluorobenzene-FID 97.2 % 50 50 5	Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
ND 200 ug/kg 1 183021 097/k/18 09/28/18 EPA 8021B 5-Xylene ND 100 ug/kg 1 1839021 5/28/18 09/28/18 EPA 8021B Fotal Xylenes ND 100 ug/kg 1 1839021 6/28/18 09/28/18 EPA 8021B Fotal Xylenes ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B Surrogate: 4-Bromochloroberzene-PID 98.3 % 50-150 183021 09/28/18 09/28/18 EPA 8021B Surrogate: 4-Bromochloroberzene-PID 98.3 % 50-150 183021 09/28/18 09/28/18 EPA 8021B Surrogate: 4-Bromochloroberzene-PID 98.3 % 50-150 1839021 09/28/18 09/28/18 EPA 8015D Diesel Range Organics (C6-C10) ND 20.0 mg/kg 1 1839021 09/28/18 09/28/18 EPA 8015D Surrogate: 1-Chloro-4-fluoroberzene-FID 97.2 % 50.4 50 1839021 09/28/18 09/28/18 EPA 80	Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
S-Xylene ND 100 ug/kg 1 183021 5/28/18 09/28/18 EPA 8021B Total Xylenes ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B Total BTEX ND 100 ug/kg 1 1839021 09/28/18 09/28/18 EPA 8021B Surrogate: 4-Bromochlorobenzene-PID 98.3 % 50-150 183/021 09/28/18 09/28/18 EPA 8021B Surrogate: 4-Bromochlorobenzene-PID 98.3 % 50-150 183/021 09/28/18 09/28/18 EPA 8021B Surrogate: 4-Bromochlorobenzene-PID 98.3 % 50-150 183/021 09/28/18 09/28/18 EPA 8015D Diesel Range Organics (C6-C10) ND 20.0 mg/kg 1 1839021 09/28/18 09/28/18 EPA 8015D Dil Range Organics (C10-C28) 2090 5.0 mg/kg 1 1839021 09/28/18 09/28/18 EPA 8015D Surrogate: 1-Chloro-4-fluorobenzene-FID 97.2 % 50/150 1839021 09/28/18 <td>Ethylbenzene</td> <td>ND</td> <td>100</td> <td>ug/kg</td> <td>1</td> <td>1839021</td> <td>09/28/18</td> <td>09/28/18</td> <td>EPA 8021B</td> <td></td>	Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
India India <th< td=""><td>p,m-Xylene</td><td>ND</td><td>200</td><td>ug/kg</td><td>1</td><td>1839021</td><td>09/28/18</td><td>09/28/18</td><td>EPA 8021B</td><td></td></th<>	p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
ND 100 ug/kg 1 183902 09/28/18 09/28/18 EPA 8021B Surrogate: 4-Bromochlorobenzene-PID 98.3 % 50-150 183/021 09/28/18 09/28/18 EPA 8021B Nonhalogenated Organics to 8015	o-Xylene	ND	100	ug/kg	1	1839021	99/28/18	09/28/18	EPA 8021B	
Construction Out Out <t< td=""><td>Total Xylenes</td><td>ND</td><td>100</td><td>ug/kg</td><td>1</td><td>1839021</td><td>09/28/18</td><td>09/28/18</td><td>EPA 8021B</td><td></td></t<>	Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Nonhalogenated Organics by 8015 ND 20.0 mg/kg 1 1839021 09/28/18 09/28/18 EPA 8015D Diesel Range Organics (C10-C28) 2090 25.0 mg/kg 1 1839023 09/28/18 09/28/18 EPA 8015D Oil Range Organics (C28-C40+) 2500 50.0 mg/kg 1 1839023 09/28/18 09/28/18 EPA 8015D Surrogate: 1-Chloro-4-fluorobenzene-FID 97.2 % 50/150 1839021 09/28/18 09/28/18 EPA 8015D Surrogate: n-Nonane 117 % 60-200 1839023 09/28/18 09/28/18 EPA 8015D Ations by 300.0/9056A 117 % 60-200 1839024 09/28/18 09/28/18 EPA 300.0/9056A	Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Gasoline Range Organics (C6-C10) ND 20.0 mg/kg 1 1839021 09/28/18 09/28/18 EPA 8015D Diesel Range Organics (C10-C28) 2090 25.0 mg/kg 1 1839023 09/28/18 09/28/18 EPA 8015D Dil Range Organics (C28-C40+) 2500 50.0 mg/kg 1 1839023 09/28/18 09/28/18 EPA 8015D Surrogate: 1-Chloro-4-fluorobenzene-FID 97.2 % 50/50 1639021 09/28/18 09/28/18 EPA 8015D Surrogate: n-Nonane 117 % 0-2-00 1839023 09/28/18 09/28/18 EPA 8015D Anions by 300.0/9056A 117 % 0-2-00 1839024 09/28/18 09/28/18 EPA 8015D Chloride ND 20.0 mg/kg 1 1839024 09/28/18 09/28/18 EPA 8015D	Surrogate: 4-Bromochlorobenzene-PID		98.3 %	50)-150	183/021	09/28/18	09/28/18	EPA 8021B	
Disel Range Organics (C10-C28) 2090 25.0 mg/kg 1 1839023 09/28/18 09/28/18 EPA 8015D Dil Range Organics (C28-C40+) 2500 50.0 mg/kg 1 1839023 09/28/18 09/28/18 EPA 8015D Surrogate: 1-Chloro-4-fluorobenzene-FID 97.2 % 504.50 1839023 09/28/18 09/28/18 EPA 8015D Surrogate: n-Nonane 117 % 60-200 1839023 09/28/18 09/28/18 EPA 8015D Anions by 300.0/9056A 117 % 60-200 1839024 09/28/18 09/28/18 EPA 8015D Chloride ND 20.0 mg/kg 1 1839024 09/28/18 09/28/18 EPA 8015D	Nonhalogenated Organics by 8015									
Dil Range Organics (C28-C40+) 2500 50.0 mg/kg 1 1839023 09/28/18 09/28/18 EPA 8015D Surrogate: 1-Chloro-4-fluorobenzene-FID 97.2 % 50.4 50 1839023 09/28/18 09/28/18 EPA 8015D Surrogate: 1-Chloro-4-fluorobenzene-FID 97.2 % 50.4 50 1839023 09/28/18 09/28/18 EPA 8015D Surrogate: n-Nonane 117 % 60-200 1839023 09/28/18 09/28/18 EPA 8015D Anions by 300.0/9056A Image: Comparison of the comparison o	Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID 97.2 % 50.450 1839021 09/28/18 09/28/18 EPA 8015D Surrogate: 117 % 50-200 1839023 09/28/18 09/28/18 EPA 8015D Anions by 300.0/9056A END 20.0 mg/kg 1 1839024 09/28/18 09/28/18 EPA 8015D Chloride ND 20.0 mg/kg 1 1839024 09/28/18 09/28/18 EPA 8015D	Diesel Range Organics (C10-C28)	2090	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Surrogate: n-Nonane 117 % 50-200 1839023 09/28/18 09/28/18 EPA 8015D Anions by 300.0/9056A Chloride ND 20.0 mg/kg 1 1839024 09/28/18 09/28/18 EPA 300.0/9056A	Oil Range Organics (C28-C40+)	2500	50.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Anions by 300.0/9056A Chloride ND 20.0 mg/kg 1 1839024 09/28/18 09/28/18 EPA 300.0/9056A	Surrogate: 1-Chloro-4-fluorobenzene-FID		97.2 %	50)-150	1839021	09/28/18	09/28/18	EPA 8015D	
Chloride ND 20.0 mg/kg 1 1839024 09/28/18 09/28/18 EPA 300.0/9056A	Surrogate: n-Nonane		117 %	50	-200	1839023	09/28/18	09/28/18	EPA 8015D	
300.0/9056A	Anions by 300.0/9056A									
	Chloride	ND	20.0	mg/kg	1	1839024	09/28/18	09/28/18		
Soil From Sample Location Removed									300.0/9036A	
Soil From Sample Location Removed										
Soil From Sample Location Removed										
Soil From Sample Location Removed										
Soil From Sample Location Removed										
Soil From Sample Location Removed										
Soil From Sample Location Removed										
Soil From Sample Location Removed					_	_				
		Soil From Sample Location Removed								

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Western Refining Wholesale	Projec	et Name:	Hosp	pah					
PO Box 62558	Projec	et Number:	0723	32-0026				Reporter:	
Phoenix AZ, 85082	Projec	et Manager:	Felip	Felipe Aragon					04
	S. 7	French Sec. P8090	3-4 Uno 65-09 (Se		3-2				
		Reporting	103-07 (5)	onu)				/	
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839021	09/2/18	09/28/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839021	99/28/18	09/28/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	50)-150	1839021	09/28/18	09/28/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D	
Diesel Range Organics (C10-C28)	1830	50.0	mg/kg	2	1839023	09/28/18	09/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	2110	100	mg/kg	2	1839023	09/28/18	09/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.3 %	50)-15)	1839021	09/28/18	09/28/18	EPA 8015D	
Surrogate: n-Nonane		113 %	50	200	1839023	09/28/18	09/28/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	ng/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A	
			Ş	Soil Fro	m Samp	ole Locat	ion Remo	oved	

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Western Refining Wholesale	Project Name:		Hosj							
PO Box 62558	0	t Number:		32-0026				Reported:		
Phoenix AZ, 85082	Projec	t Manager:	Felip	Felipe Aragon					10/91/18 15:04	
		Excavat P8090	tion #2 E 65-10 (Se							
		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Anabyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/1/8	09/28/18	EPA 8021B		
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
o-Xylene	ND	100	ug/kg	1	1839021	9/28/18	09/28/18	EPA 8021B		
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		99.9 %	50	-150	1879021	09/28/18	09/28/18	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D		
Diesel Range Organics (C10-C28)	72.0	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D		
Oil Range Organics (C28-C40+)	90.5	50.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D		
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.9 %	5(150	1839021	09/28/18	09/28/18	EPA 8015D		
Surrogate: n-Nonane		99.1 %	50	-200	1839023	09/28/18	09/28/18	EPA 8015D		
Anions by 300.0/9056A										
Chloride	33.9	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A		
				-:1	C					
			5	oii From	n Samp	ie Locati	on Remo	ved		

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Western Refining Wholesale	Project	Name:	Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				10/01/18 15:	04
		Excavat	ion #2 W	V. Wall					
			65-11 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50	-150	1839021	09/28/18	09/28/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	50	-150	1839021	09/28/18	09/28/18	EPA 8015D	
Surrogate: n-Nonane		98.7 %	50	-200	1839023	09/28/18	09/28/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	66.1	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project Name:		Hosp	ah					
PO Box 62558	Project	Number:	0723	2-0026				Reported:	
Phoenix AZ, 85082	Project	Manager:	Felip	e Aragon				10/01/18 15:04	
		Excavat	tion #2 S	. Wall					
		P8090	65-12 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1839021	09/28/18	09/28/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50	-150	1839021	09/28/18	09/28/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1839021	09/28/18	09/28/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1839023	09/28/18	09/28/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.7 %	50	-150	1839021	09/28/18	09/28/18	EPA 8015D	
Surrogate: n-Nonane		102 %	50	-200	1839023	09/28/18	09/28/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1839024	09/28/18	09/28/18	EPA 300.0/9056A	

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	10/01/18 15:04

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	D	Reporting		Spike	Source	A/2553	%REC	D.P.5	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1839021 - Purge and Trap EPA 5030A										
Blank (1839021-BLK1)				Prepared: ()9/28/18 0 A	analyzed: 0	9/28/18 2			
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
o,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	8040		"	8000		101	50-150			
LCS (1839021-BS1)				Prepared: ()9/28/18 0 A	Analyzed: (9/28/18 2			
Benzene	4810	100	ug/kg	5000		96.2	70-130			
Toluene	4830	100	"	5000		96.6	70-130			
Ethylbenzene	4860	100	"	5000		97.1	70-130			
,m-Xylene	9950	200	"	10000		99.5	70-130			
-Xylene	4830	100	"	5000		96.6	70-130			
Total Xylenes	14800	100	"	15000		98.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8120		"	8000		102	50-150			
Matrix Spike (1839021-MS1)	Sou	rce: P809065-	01	Prepared: ()9/28/18 0 A	analyzed: 0	9/28/18 2			
Benzene	5110	100	ug/kg	5000	ND	102	54.3-133			
Toluene	5120	100	"	5000	ND	102	61.4-130			
Ethylbenzene	5150	100	"	5000	ND	103	61.4-133			
o,m-Xylene	10500	200	"	10000	ND	105	63.3-131			
o-Xylene	5110	100	"	5000	ND	102	63.3-131			
Total Xylenes	15600	100	"	15000	ND	104	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8170		"	8000		102	50-150			
Matrix Spike Dup (1839021-MSD1)	Sou	rce: P809065-	01	Prepared: ()9/28/18 0 A	analyzed: (9/28/18 2			
Benzene	5210	100	ug/kg	5000	ND	104	54.3-133	2.01	20	
Toluene	5230	100	"	5000	ND	105	61.4-130	2.08	20	
Ethylbenzene	5280	100	"	5000	ND	106	61.4-133	2.38	20	
o,m-Xylene	10800	200	"	10000	ND	108	63.3-131	2.33	20	
o-Xylene	5210	100	"	5000	ND	104	63.3-131	2.09	20	
Total Xylenes	16000	100	"	15000	ND	107	63.3-131	2.25	20	
Surrogate: 4-Bromochlorobenzene-PID	8150		"	8000		102	50-150			

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	10/01/18 15:04

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

			•		•					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1839021 - Purge and Trap EPA 5030A										
Blank (1839021-BLK1)				Prepared: (09/28/18 0 A	Analyzed: 0	9/28/18 2			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		"	8.00		98.8	50-150			
LCS (1839021-BS2)				Prepared:	09/28/18 0 A	Analyzed: 0	9/28/18 2			
Gasoline Range Organics (C6-C10)	43.9	20.0	mg/kg	50.0		87.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		"	8.00		100	50-150			
Matrix Spike (1839021-MS2)	Sou	rce: P809065-	01	Prepared:	09/28/18 0 A	Analyzed: 0	9/29/18 0			
Gasoline Range Organics (C6-C10)	46.8	20.0	mg/kg	50.0	ND	93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		"	8.00		99.2	50-150			
Matrix Spike Dup (1839021-MSD2)	Sou	rce: P809065-	01	Prepared:	09/28/18 0 A	Analyzed: 0	9/29/18 0			
Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.8	70-130	0.890	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		"	8.00		99.0	50-150			

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	10/01/18 15:04

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

					J					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1839023 - DRO Extraction EPA 3570										
Blank (1839023-BLK1)				Prepared: (09/28/18 0 A	Analyzed: 0	9/28/18 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	48.7		"	50.0		97.4	50-200			
LCS (1839023-BS1)				Prepared: (09/28/18 0 A	Analyzed: 0	9/28/18 1			
Diesel Range Organics (C10-C28)	438	25.0	mg/kg	500		87.7	38-132			
Surrogate: n-Nonane	48.4		"	50.0		96.8	50-200			
Matrix Spike (1839023-MS1)	Sou	rce: P809065-	01	Prepared: (09/28/18 0 A	Analyzed: 0	9/28/18 1			
Diesel Range Organics (C10-C28)	480	25.0	mg/kg	500	32.5	89.6	38-132			
Surrogate: n-Nonane	50.3		"	50.0		101	50-200			
Matrix Spike Dup (1839023-MSD1)	Sou	rce: P809065-	01	Prepared: (09/28/18 0 A	Analyzed: 0	9/28/18 1			
Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500	32.5	84.1	38-132	5.93	20	
Surrogate: n-Nonane	49.6		"	50.0		99.2	50-200			

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	10/01/18 15:04

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1839024 - Anion Extraction EPA 30	0.0/9056A									
Blank (1839024-BLK1)				Prepared: 0	9/28/18 0 A					
Chloride	ND	20.0	mg/kg							
LCS (1839024-BS1)				Prepared: 0	9/28/18 0 A	Analyzed: 0	9/28/18 1			
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (1839024-MS1)	Sourc	ce: P809065-	01	Prepared: 0	9/28/18 0 A	Analyzed: 0	9/28/18 1			
Chloride	260	20.0	mg/kg	250	ND	104	80-120			
Matrix Spike Dup (1839024-MSD1)) Source: P809065-01 Prepared: 09/28/18 0 Analyzed: 09/28/18 1									
Chloride	260	20.0	mg/kg	250	ND	104	80-120	0.211	20	

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Western Refining Wholesale	Project Name:	Hospah	
PO Box 62558	Project Number:	07232-0026	Reported:
Phoenix AZ, 85082	Project Manager:	Felipe Aragon	10/01/18 15:04

Notes and Definitions

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

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Project Information Chain of							f Custody									Page of						
Client: Western Whoh sake Report Attention						n		Lab Use Only			- 191	TAT		EP	m 5							
Project: Haspah Report due by:							154453400	WO			l dol			and the second	1D 3D	RC	RA	CWA	SDW 5			
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Relinquish	Relinquished by: (Signature) Date Time Received by: (Signature)							Date		Time			<u>T1</u> AVG			Ī	T2	<u>T3</u>				
	Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other								Contain													
Note: Same								ts are made. Hazardous ne liabilitv of the laborao								client e	xpens	se. The rep	port for	the ar	alysis of the	above
3		VII						5796 US Highway 64, Fai	rmington, NM 87401	ngton, NM 87401 Ph (505) 632-0615 Fx (505) 632-1865					envirotech-inc.co							
		Analyt	ical Lo	abora	tory			Three Springs • 65 Merca	ado Street, Suite 115, Dura	ngo, (0 81	1301			Ph (970) 2	59-0615	5 Fr (800)	362-18	79			laboratory	envirotech-inc.co

	Informati			- 1		Ch	hain of Custody												Page EPA Prog	?of
Client: C	Destur	n Wh	ohe sa	k	_	Report Att	ention			La		e On				TA	10 m		EPA Prog	ram
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Time Sampled	Date Sampled	Matrix	No Containers	Sample I	D		Lat Numl	0	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1					Re	marks
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					e. I am aware tha action. Sampled I	it tampering with or intentionally m	hislabelling the sample loca	tion, date	or										n ice the day they 6 °C on subseque	
Relinguis	hed by: (Sig	nature)	Date	127/18	Time 16:13	Received by: (Signature) Date	7/18	Time	:15		Rece	eiver	don	ice:		Use	e Only N		
Relinquis	hed by: (Sig	nature)	Date		Time	Received by: (Signature			Time	_		T1 AVG				<u>T2</u>			<u>T3</u>	
Sample Ma	atrix: S - Soil,	Sd - Solid, S	Sg - Sludge,	A - Aqueous	0 - Other		Conta	iner Ty	pe: g	- glas		10000	10-01-510-51	123 C		nber g	glass,	v - VO	A	
1000	ples are disca	arded 30 da	vs after res	8	rted unless othe	er arrangements are made. Ha h this COC. The liability of the	azardous samples will b	e returne	d to cli	ent or	dispos	ed of a	t the				St			he above
->	en	vir	010	ecr	1	5796 US Hig	hway 64, Farmington, NM 87401					Ph (505) 6	32-0615	5 Fx (50	5) 632-1	865			200	envirotech-in
2				oorator	У	Three Spring	gs • 65 Mercado Street, Suite 115,	urango, CO 8	1301	a riad ar a sea po	1	Ph (970) 2	59-0615	5 Fr (80	0) 362-1	879			laborate	ry@envirotech-in

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S Trench Sec 2 under slab #2-3 **CLIENT:** Western Refining Southwest, Inc. **Project:** Hospah Collection Date: 10/4/2018 10:49:00 AM Lab ID: 1810332-001 Matrix: SOIL Received Date: 10/5/2018 7:50:00 AM Result **POL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 30 mg/Kg 20 10/5/2018 12:00:00 PM 40831 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm **Diesel Range Organics (DRO)** ND 10 mg/Kg 1 10/5/2018 12:02:51 PM 40834 Motor Oil Range Organics (MRO) ND 10/5/2018 12:02:51 PM 40834 50 mg/Kg 1 Surr: DNOP 129 50.6-138 %Rec 1 10/5/2018 12:02:51 PM 40834 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5.0 10/5/2018 9:40:49 AM R54661 mg/Kg 1 Surr: BFB 97.9 15-316 %Rec 10/5/2018 9:40:49 AM R54661 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 10/5/2018 9:40:49 AM R54661 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 10/5/2018 9:40:49 AM R54661 Ethylbenzene ND 0.050 mg/Kg 1 10/5/2018 9:40:49 AM R54661 Xylenes, Total ND 0.10 mg/Kg 10/5/2018 9:40:49 AM R54661 1 Surr: 4-Bromofluorobenzene 94.2 80-120 %Rec 1 10/5/2018 9:40:49 AM R54661

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	Holding times for preparation or analysis exceeded

- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 0
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S Trench Sec 2 under slab #1-4 **CLIENT:** Western Refining Southwest, Inc. **Project:** Hospah Collection Date: 10/4/2018 11:48:00 AM Lab ID: 1810332-002 Matrix: SOIL Received Date: 10/5/2018 7:50:00 AM Result **POL Oual Units DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: smb Chloride ND 30 mg/Kg 20 10/5/2018 12:00:00 PM 40831 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm **Diesel Range Organics (DRO)** ND 9.7 mg/Kg 1 10/5/2018 12:24:41 PM 40834 ND 10/5/2018 12:24:41 PM 40834 Motor Oil Range Organics (MRO) 48 mg/Kg 1 Surr: DNOP 10/5/2018 12:24:41 PM 40834 132 50.6-138 %Rec 1 Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 10/5/2018 10:04:28 AM R54661 Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 Surr: BFB 96.4 15-316 %Rec 1 10/5/2018 10:04:28 AM R54661 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.025 10/5/2018 10:04:28 AM R54661 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 10/5/2018 10:04:28 AM R54661 Ethylbenzene ND 0.050 mg/Kg 1 10/5/2018 10:04:28 AM R54661 Xylenes, Total ND 0.10 mg/Kg 10/5/2018 10:04:28 AM R54661 1 Surr: 4-Bromofluorobenzene 80-120 10/5/2018 10:04:28 AM R54661 93.6 %Rec 1

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quanitative Limit
	~	

- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 0
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

October 15, 2018

Matt Krakow Western Refining Southwest, Inc. #50 CR 4990 Bloomfield, NM 87413 TEL: (505) 632-4135 FAX (505) 632-3911

RE: Hospah

OrderNo.: 1810739

Dear Matt Krakow:

Hall Environmental Analysis Laboratory received 7 sample(s) on 10/12/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Exavation 1 Shelf +12" Collection Date: 10/11/2018 9:48:00 AM

Project: Hospah 1810739-001 Lab ID:

CLIENT: Western Refining Southwest, Inc.

Matrix: MEOH (SOIL) Received Date: 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	10/12/2018 10:48:01 AM 40974
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/12/2018 10:12:14 AM 40973
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2018 10:12:14 AM 40973
Surr: DNOP	97.1	50.6-138	%Rec	1	10/12/2018 10:12:14 AM 40973
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	10/12/2018 11:24:30 AM R54834
Surr: BFB	87.9	15-316	%Rec	1	10/12/2018 11:24:30 AM R54834
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.019	mg/Kg	1	10/12/2018 11:24:30 AM B54834
Toluene	ND	0.037	mg/Kg	1	10/12/2018 11:24:30 AM B54834
Ethylbenzene	ND	0.037	mg/Kg	1	10/12/2018 11:24:30 AM B54834
Xylenes, Total	ND	0.074	mg/Kg	1	10/12/2018 11:24:30 AM B54834
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1	10/12/2018 11:24:30 AM B54834

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 12 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical R	leport
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Lab Order 1810739

Date Reported: 10/15/2018

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015D: GASOLINE RANGE

Gasoline Range Organics (GRO)

EPA METHOD 8021B: VOLATILES

Surr: BFB

CLIENT: Western Refining Southwest, Inc. Client Sample ID: South Trench Sec. 5 West **Project:** Hospah Collection Date: 10/11/2018 9:54:00 AM Lab ID: 1810739-002 Matrix: MEOH (SOIL) Received Date: 10/12/2018 8:07:00 AM Analyses Result **PQL** Qual Units **DF** Date Analyzed **EPA METHOD 300.0: ANIONS** 10/12/2018 11:00:26 AM 40974 Chloride ND 30 mg/Kg 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS 10/12/2018 10:34:24 AM 40973 **Diesel Range Organics (DRO)** ND 9.8 mg/Kg 1 Motor Oil Range Organics (MRO) ND 0/12/2018 10:34:24 AM 40973 49 mg/Kg 1 Surr: DNOP 96.7 50.6-138 %Rec 10/12/2018 10:34:24 AM 40973 1

Analyst: RAA

Analyst: MRA

Analyst: Irm

Batch

10/12/2018 11:48:02 AM R54834 10/12/2018 11:48:02 AM R54834

Analyst: RAA

					-
Benzene	ND	0.016	mg/Kg	1	10/12/2018 11:48:02 AM B54834
Toluene	ND	0.032	mg/Kg	1	10/12/2018 11:48:02 AM B54834
Ethylbenzene	ND	0.032	mg/Kg	1	10/12/2018 11:48:02 AM B54834
Xylenes, Total	ND	0.064	mg/Kg	1	10/12/2018 11:48:02 AM B54834
Surr: 4-Bromofluorobenzene	92.7	80-120	%Rec	1	10/12/2018 11:48:02 AM B54834

3.2

15-316

ND

86.3

Soil From Sample Location Removed

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Oualifier

- Value exceeds Maximum Contaminant Level. * D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 12 J
- Р Sample pH Not In Range

mg/Kg

%Rec

1

1

- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: South Trench Depression South Collection Date: 10/11/2018 9:57:00 AM

1810739-003 Lab ID:

Hospah

Project:

Matrix: MEOH (SOIL) Received Date: 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	10/12/2018 11:12:51 AM 40974
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: Irm
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	10/12/2018 10:56:37 AM 40973
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	10/12/2018 10:56:37 AM 40973
Surr: DNOP	96.0	50.6-138	%Rec	1	10/12/2018 10:56:37 AM 40973
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.1	mg/Kg	1	10/12/2018 12:11:28 PM R54834
Surr: BFB	85.2	15-316	%Rec	1	10/12/2018 12:11:28 PM R54834
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.015	mg/Kg	1	10/12/2018 12:11:28 PM B54834
Toluene	ND	0.031	mg/Kg	1	10/12/2018 12:11:28 PM B54834
Ethylbenzene	ND	0.031	mg/Kg	1	10/12/2018 12:11:28 PM B54834
Xylenes, Total	ND	0.061	mg/Kg	1	10/12/2018 12:11:28 PM B54834
Surr: 4-Bromofluorobenzene	91.6	80-120	%Rec	1	10/12/2018 12:11:28 PM B54834

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 12 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: South Trench Depression North Collection Date: 10/11/2018 10:00:00 AM

Lab ID: 1810739-004

Hospah

Project:

Matrix: MEOH (SOIL) Received Date: 10/11/2/018 8:07:00 AM

Received Date: 10/12/2018 8.07.00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	10/12/2018 11:25:15 AM	1 40974
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst:	Irm
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	10/12/2018 11:18:35 AM	1 40973
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	10/12/2018 11:18:35 AM	1 40973
Surr: DNOP	97.7	50.6-138	%Rec	1	10/12/2018 11:18:35 AM	1 40973
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	10/12/2018 12:34:51 PM	1 R54834
Surr: BFB	85.6	15-316	%Rec	1	10/12/2018 12:34:51 PM	1 R54834
EPA METHOD 8021B: VOLATILES					Analyst:	RAA
Benzene	ND	0.017	mg/Kg	1	10/12/2018 12:34:51 PM	1 B54834
Toluene	ND	0.033	mg/Kg	1	10/12/2018 12:34:51 PM	1 B54834
Ethylbenzene	ND	0.033	mg/Kg	1	10/12/2018 12:34:51 PM	1 B54834
Xylenes, Total	ND	0.066	mg/Kg	1	10/12/2018 12:34:51 PM	1 B54834
Surr: 4-Bromofluorobenzene	91.4	80-120	%Rec	1	10/12/2018 12:34:51 PM	1 B54834

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 12
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: West Wall 1

1810739-005 Lab ID:

Hospah

Project:

Collection Date: 10/11/2018 10:10:00 AM

Received Date: 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	10/12/2018 11:37:40 AM 40974
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/12/2018 11:40:40 AM 40973
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2018 11:40:40 AM 40973
Surr: DNOP	102	50.6-138	%Rec	1	10/12/2018 11:40:40 AM 40973
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	10/12/2018 12:58:16 PM R54834
Surr: BFB	88.0	15-316	%Rec	1	10/12/2018 12:58:16 PM R54834
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.019	mg/Kg	1	10/12/2018 12:58:16 PM B54834
Toluene	ND	0.038	mg/Kg	1	10/12/2018 12:58:16 PM B54834
Ethylbenzene	ND	0.038	mg/Kg	1	10/12/2018 12:58:16 PM B54834
Xylenes, Total	ND	0.076	mg/Kg	1	10/12/2018 12:58:16 PM B54834
Surr: 4-Bromofluorobenzene	93.8	80-120	%Rec	1	10/12/2018 12:58:16 PM B54834

Matrix: MEOH (SOIL)

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 12 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: West Wall 2 Collection Date: 10/11/2018 10:14:00 AM

1810739-006 Lab ID:

Hospah

Project:

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Matrix: MEOH (SOIL)

Received Date: 10/12/2018 8:07:00 AM

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Analyses	Result	PQL	Qual Units	DF	Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: MRA
Chloride	ND	30	mg/Kg	20	10/12/2018 11:50:04 AM 40974
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	10/12/2018 12:02:44 PM 40973
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2018 12:02:44 PM 40973
Surr: DNOP	97.6	50.6-138	%Rec	1	10/12/2018 12:02:44 PM 40973
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	10/12/2018 1:21:39 PM R54834
Surr: BFB	86.5	15-316	%Rec	1	10/12/2018 1:21:39 PM R54834
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.020	mg/Kg	1	10/12/2018 1:21:39 PM B54834
Toluene	ND	0.040	mg/Kg	1	10/12/2018 1:21:39 PM B54834
Ethylbenzene	ND	0.040	mg/Kg	1	10/12/2018 1:21:39 PM B54834
Xylenes, Total	ND	0.080	mg/Kg	1	10/12/2018 1:21:39 PM B54834
Surr: 4-Bromofluorobenzene	91.8	80-120	%Rec	1	10/12/2018 1:21:39 PM B54834

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DOT

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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 12 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: South Trench Depression Bottom Collection Date: 10/11/2018 12:30:00 PM

Project: Hospah 1810739-007 Lab ID:

CLIENT: Western Refining Southwest, Inc.

Matrix: MEOH (SOIL) Received Date: 10/12/2018 8:07:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	30	mg/Kg	20	10/12/2018 12:02:28 F	M 40974
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: Irm
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	10/12/2018 12:24:55 P	M 40973
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	10/12/2018 12:24:55 F	M 40973
Surr: DNOP	103	50.6-138	%Rec	1	10/12/2018 12:24:55 P	M 40973
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: RAA
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	10/12/2018 1:45:03 PM	/ R54834
Surr: BFB	92.3	15-316	%Rec	1	10/12/2018 1:45:03 PM	/ R54834
EPA METHOD 8021B: VOLATILES					Analys	t: RAA
Benzene	ND	0.023	mg/Kg	1	10/12/2018 1:45:03 PM	A B54834
Toluene	ND	0.046	mg/Kg	1	10/12/2018 1:45:03 PM	A B54834
Ethylbenzene	ND	0.046	mg/Kg	1	10/12/2018 1:45:03 PM	A B54834
Xylenes, Total	ND	0.091	mg/Kg	1	10/12/2018 1:45:03 PM	A B54834
Surr: 4-Bromofluorobenzene	94.4	80-120	%Rec	1	10/12/2018 1:45:03 PM	A B54834

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 12 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Client:	Western	Refining Sou	ıthwe	st, Inc.							
Project:	Hospah										
Sample ID	MB-40974	SampType: mblk TestCode: EPA Method				300.0: Anion	s				
Client ID:	PBS	Batch I	D: 40	974	F	RunNo: 5	4842				
Prep Date:	10/12/2018	Analysis Dat	ie: 10	0/12/2018	5	SeqNo: 1	823418	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-40974	SampTyp	be: Ics	3	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch I	D: 40	974	F	RunNo: 5	4842				
Prep Date:	10/12/2018	Analysis Dat	ie: 10	0/12/2018	5	SeqNo: 1	823419	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	99.0	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Page 8 of 12

WO#:	1810739
	15 Oct 10

Client:WesternProject:Hospah	Refining S	outhwe	st, Inc.							
Sample ID LCS-40973	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 40973			RunNo: 54831						
Prep Date: 10/12/2018	Analysis D	ate: 10	0/12/2018	S	SeqNo: 1	821180	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.5	70	130			
Surr: DNOP	4.6		5.000		91.9	50.6	138			
Sample ID MB-40973	SampT	ype: M	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	n ID: 40	973	F	RunNo: 5	4831				
Prep Date: 10/12/2018	Analysis D	ate: 1	0/12/2018	S	SeqNo: 1	821181	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		92.3	50.6	138			

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 9 of 12

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	Western I Hospah	Refining So	outhwe	st, Inc.							
Sample ID	2.5UG GRO LCS	SampT	ype: LC	s	TestCode: EPA Method 8015D: Gasoline Range						
Client ID:	LCSS	Batch	ID: R5	64834	F	RunNo: 5	4834				
Prep Date:		Analysis D	ate: 1	0/12/2018	5	SeqNo: 1	821213	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	28	5.0	25.00	0	114	75.9	131			
Surr: BFB		1100		1000		110	15	316			
Sample ID	RB	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e	
Client ID:	PBS	Batch	ID: R5	4834	F	RunNo: 5	4834				
Prep Date:		Analysis D	ate: 1	0/12/2018	S	SeqNo: 1	822039	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	ND	5.0								
Surr: BFB		910		1000		91.0	15	316			
Sample ID	1810739-001A MS	5	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	e			
Client ID:	Exavation 1 Shelf	+ Batch	ID: R5	64834	F	RunNo: 5	4834				
Prep Date:		Analysis D	ate: 1	0/12/2018	S	SeqNo: 1	822838	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	18	3.7	18.57	0	98.5	77.8	128			
Surr: BFB		760		742.9		103	15	316			
Sample ID	1810739-001A MS	D SampT	ype: M	SD	Tes	tCode: E	PA Method	8015D: Gase	oline Rang	е	
Client ID:	Exavation 1 Shelf	+ Batch	ID: R5	54834	RunNo: 54834						
Prep Date:		Analysis D	ate: 1	0/12/2018	S	SeqNo: 1	822839	Units: mg/ł	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	18	3.7	18.57	0	98.6	77.8	128	0.0406	20	
Surr: BFB											
Sample ID LCS-40965 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									0	0	
Sample ID	LCS-40965	740 SampT	ype: LC	742.9	Tes	98.9 tCode: E	15 PA Method	316 8015D: Gase			
Sample ID Client ID:		SampT	ype: LC ID: 40	s			PA Method				
Client ID:		SampT	ID: 40	S 965	F	tCode: E	PA Method 4834		oline Rang		
Client ID:	LCSS	SampT <u>y</u> Batch	ID: 40	S 965 0/12/2018	F	tCode: E RunNo: 5 SeqNo: 1	PA Method 4834	8015D: Gaso	oline Rang		Qual
Client ID: Prep Date:	LCSS	SampTy Batch Analysis Da	ID: 40 ate: 1 0	S 965 0/12/2018	F	tCode: E RunNo: 5 SeqNo: 1	PA Method 4834 822840	8015D: Gaso Units: %Re	bline Rang c	e	Qual
Client ID: Prep Date: Analyte Surr: BFB	LCSS	SampT Batch Analysis D Result	ID: 40 ate: 1 0 PQL	25 965 0/12/2018 SPK value 1000	F SPK Ref Val	tCode: El RunNo: 5 SeqNo: 1 %REC 100	PA Method 4834 822840 LowLimit 15	8015D: Gaso Units: %Re HighLimit	bline Rang c %RPD	e RPDLimit	Qual
Client ID: Prep Date: Analyte Surr: BFB	LCSS 10/11/2018 MB-40965	SampTy Batch Analysis Da Result 1000 SampTy	ID: 40 ate: 1 0 PQL	25 965 0/12/2018 SPK value 1000 BLK	F SPK Ref Val Tes	tCode: El RunNo: 5 SeqNo: 1 %REC 100	PA Method 4834 822840 LowLimit 15 PA Method	8015D: Gaso Units: %Re HighLimit 316	bline Rang c %RPD	e RPDLimit	Qual
Client ID: Prep Date: Analyte Surr: BFB Sample ID Client ID:	LCSS 10/11/2018 MB-40965	SampTy Batch Analysis Da Result 1000 SampTy	ID: 40 ate: 1 PQL ype: MI	25 965 0/12/2018 SPK value 1000 BLK 965	F SPK Ref Val Tes F	tCode: E RunNo: 5 SeqNo: 1 %REC 100 tCode: E	PA Method 4834 822840 LowLimit 15 PA Method 4834	8015D: Gaso Units: %Re HighLimit 316	oline Rang c %RPD oline Rang	e RPDLimit	Qual
Client ID: Prep Date: Analyte Surr: BFB Sample ID Client ID:	LCSS 10/11/2018 MB-40965 PBS	SampTy Batch Analysis Da Result 1000 SampTy Batch	ID: 40 ate: 1 PQL ype: MI	25 965 0/12/2018 SPK value 1000 BLK 965 0/12/2018	F SPK Ref Val Tes F	tCode: E RunNo: 5 SeqNo: 1 %REC 100 tCode: E RunNo: 5 SeqNo: 1	PA Method 4834 822840 LowLimit 15 PA Method 4834	8015D: Gaso Units: %Re HighLimit 316 8015D: Gaso	oline Rang c %RPD oline Rang	e RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Western F	Refining S	Southwes	st, Inc.							
Project:	Hospah										
Sample ID	100NG BTEX LCS	Samp	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS Batch ID: B54834			RunNo: 54834							
Prep Date:		Analysis [Date: 10	/12/2018	S	eqNo: 1	821215	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.025	1.000	0	89.4	77.3	128			
Toluene		0.96	0.050	1.000	0	96.4	79.2	125			
Ethylbenzene		0.97	0.050	1.000	0	97.4	80.7	127			
Xylenes, Total		3.0	0.10	3.000	0	99.4	81.6	129			
Surr: 4-Brom	ofluorobenzene	1.0		1.000		101	80	120			
Sample ID	RB SampType: MBLK				Test	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: B5	4834	R	unNo: 54	4834				
Prep Date:		Analysis [Date: 10	/12/2018	S	eqNo: 1	822043	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Brom	ofluorobenzene	0.99		1.000		98.7	80	120			
Sample ID	1810739-002A MS	Samp	Гуре: МS	;	Test	tCode: El	PA Method	8021B: Vola	tiles		
	1810739-002A MS South Trench Sec		Гуре: МS h ID: B5			Code: El		8021B: Vola	tiles		
			h ID: B5	4834	R		4834	8021B: Volat			
Client ID:		.5 Batc	h ID: B5	4834)/12/2018	R	unNo: 54	4834			RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene		.5 Batc Analysis [Result 0.56	h ID: B5 Date: 10 <u>PQL</u> 0.016	4834 // 12/2018 SPK value 0.6431	R S SPK Ref Val 0	2unNo: 5 4 6eqNo: 1 8 <u>%REC</u> 87.0	4834 822879 LowLimit 68.5	Units: mg/k HighLimit 133	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene		. 5 Batc Analysis [Result	h ID: B5 Date: 10 PQL	4834) /12/2018 SPK value	R S SPK Ref Val	RunNo: 5 4 SeqNo: 1 8 %REC	4834 822879 LowLimit 68.5 75	Units: mg/k HighLimit	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene		.5 Batc Analysis I Result 0.56 0.61 0.61	h ID: B5 Date: 10 <u>PQL</u> 0.016 0.032 0.032	4834 /12/2018 SPK value 0.6431 0.6431 0.6431	R S SPK Ref Val 0	2unNo: 5 4 SeqNo: 1 8 <u>%REC</u> 87.0 94.6 95.5	4834 822879 LowLimit 68.5 75 79.4	Units: mg/k HighLimit 133 130 128	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	South Trench Sec	.5 Batc Analysis I Result 0.56 0.61	h ID: B5 Date: 10 PQL 0.016 0.032	4834 //12/2018 SPK value 0.6431 0.6431	R S SPK Ref Val 0 0	RunNo: 5 4 seqNo: 1 8 <u>%REC</u> 87.0 94.6	4834 822879 LowLimit 68.5 75	Units: mg/K HighLimit 133 130	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total		.5 Batc Analysis I Result 0.56 0.61 0.61	h ID: B5 Date: 10 <u>PQL</u> 0.016 0.032 0.032	4834 /12/2018 SPK value 0.6431 0.6431 0.6431	R SPK Ref Val 0 0 0	2unNo: 5 4 SeqNo: 1 8 <u>%REC</u> 87.0 94.6 95.5	4834 822879 LowLimit 68.5 75 79.4	Units: mg/k HighLimit 133 130 128	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	South Trench Sec	.5 Batc Analysis I Result 0.56 0.61 0.61 1.9 0.63	h ID: B5 Date: 10 <u>PQL</u> 0.016 0.032 0.032	4834 0/12/2018 SPK value 0.6431 0.6431 1.929 0.6431	R SPK Ref Val 0 0 0 0	eunNo: 5 6eqNo: 18 <u>%REC</u> 87.0 94.6 95.5 97.4 98.5	4834 822879 LowLimit 68.5 75 79.4 77.3 80	Units: mg/k HighLimit 133 130 128 131	íg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	South Trench Sec	. 5 Batc Analysis I Result 0.56 0.61 0.61 1.9 0.63 D Samp	h ID: B5 Date: 10 PQL 0.016 0.032 0.032 0.064	4834 2/12/2018 SPK value 0.6431 0.6431 1.929 0.6431 5D	R SPK Ref Val 0 0 0 0 0 Test	eunNo: 5 6eqNo: 18 <u>%REC</u> 87.0 94.6 95.5 97.4 98.5	4834 822879 LowLimit 68.5 75 79.4 77.3 80 PA Method	Units: mg/k HighLimit 133 130 128 131 120	íg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	South Trench Sec nofluorobenzene 1810739-002A MS	. 5 Batc Analysis I Result 0.56 0.61 0.61 1.9 0.63 D Samp	h ID: B5 Date: 10 PQL 0.016 0.032 0.032 0.064 Type: MS h ID: B5	4834 y/12/2018 SPK value 0.6431 0.6431 1.929 0.6431 1.929 0.6431 5D 4834	R SPK Ref Val 0 0 0 0 Test	RunNo: 54 6eqNo: 14 70 94.6 95.5 97.4 98.5 tCode: Ef	4834 822879 LowLimit 68.5 75 79.4 77.3 80 PA Method 4834	Units: mg/k HighLimit 133 130 128 131 120	Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID:	South Trench Sec nofluorobenzene 1810739-002A MS	.5 Batc Analysis I 0.56 0.61 0.61 1.9 0.63 D Samp .5 Batc	h ID: B5 Date: 10 PQL 0.016 0.032 0.032 0.064 Type: MS h ID: B5	4834 y/12/2018 SPK value 0.6431 0.6431 1.929 0.6431 5D 4834 y/12/2018	R SPK Ref Val 0 0 0 0 Test	RunNo: 54 GeqNo: 14 %REC 87.0 94.6 95.5 97.4 98.5 RCode: EF	4834 822879 LowLimit 68.5 75 79.4 77.3 80 PA Method 4834	Units: mg/k HighLimit 133 130 128 131 120 8021B: Vola	Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	South Trench Sec nofluorobenzene 1810739-002A MS	. 5 Batc Analysis I Result 0.56 0.61 1.9 0.63 D Samp . 5 Batc Analysis I	h ID: B5 Date: 10 PQL 0.016 0.032 0.032 0.064 Type: MS h ID: B5 Date: 10	4834 y/12/2018 SPK value 0.6431 0.6431 1.929 0.6431 5D 4834 y/12/2018	R SPK Ref Val 0 0 0 0 Tesi R S	RunNo: 54 SeqNo: 18 %REC 87.0 94.6 95.5 97.4 98.5 Code: EF RunNo: 54 SeqNo: 18	4834 822879 LowLimit 68.5 75 79.4 77.3 80 PA Method 4834 822880	Units: mg/k HighLimit 133 130 128 131 120 8021B: Volat Units: mg/k	Kg %RPD tiles		
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	South Trench Sec nofluorobenzene 1810739-002A MS	. 5 Batc Analysis I 0.56 0.61 0.61 1.9 0.63 D Samp . 5 Batc Analysis I Result	h ID: B5 Date: 10 PQL 0.016 0.032 0.032 0.064 Type: MS h ID: B5 Date: 10 PQL	4834 2/12/2018 SPK value 0.6431 0.6431 1.929 0.6431 5D 4834 2/12/2018 SPK value	R SPK Ref Val 0 0 0 0 Test R SPK Ref Val	RunNo: 5/ SeqNo: 18 %REC 87.0 94.6 95.5 97.4 98.5 Code: EF RunNo: 5/ SeqNo: 18 %REC	4834 822879 LowLimit 68.5 75 79.4 77.3 80 PA Method 4834 822880 LowLimit	Units: mg/k HighLimit 133 130 128 131 120 8021B: Vola t Units: mg/k HighLimit	Kg %RPD tilles Kg %RPD	RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	South Trench Sec nofluorobenzene 1810739-002A MS	. 5 Batc Analysis I 0.56 0.61 0.61 1.9 0.63 D Samp . 5 Batc Analysis I Result 0.57	h ID: B5 Date: 10 PQL 0.016 0.032 0.032 0.064 Type: MS h ID: B5 Date: 10 PQL 0.016	4834 2/12/2018 SPK value 0.6431 0.6431 1.929 0.6431 0.6431 5D 4834 2/12/2018 SPK value 0.6431	SPK Ref Val 0 0 0 0 Test SPK Ref Val 0	2unNo: 5 5eqNo: 18 %REC 87.0 94.6 95.5 97.4 98.5 5 5 5 5 5 6 6 8 8 9 7 4 8 8 5 5 6 6 8 7 18 18 18 18 18 18 18 18 18 18	4834 822879 LowLimit 68.5 75 79.4 77.3 80 PA Method 4834 822880 LowLimit 68.5	Units: mg/k HighLimit 133 130 128 131 120 8021B: Vola Units: mg/k HighLimit 133	5g %RPD tiles 5g 1.07	RPDLimit 20	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date:	South Trench Sec nofluorobenzene 1810739-002A MS	. 5 Batc Analysis I 0.56 0.61 0.61 1.9 0.63 D Samp Analysis I Result 0.57 0.61	h ID: B5 Date: 10 PQL 0.016 0.032 0.032 0.064 Type: MS h ID: B5 Date: 10 PQL 0.016 0.032	4834 x/12/2018 SPK value 0.6431 0.6431 1.929 0.6431 0.6431 5D 4834 x/12/2018 SPK value 0.6431 0.6431	SPK Ref Val 0 0 0 0 0 Test SPK Ref Val 0 0	2unNo: 5 5eqNo: 18 %REC 87.0 94.6 95.5 97.4 98.5 5 5 5 5 5 5 5 6 6 9 7 8 8 7 18 8 8 9 18 18 18 18 18 18 18 18 18 18	4834 822879 LowLimit 68.5 75 79.4 77.3 80 PA Method 4834 822880 LowLimit 68.5 75	Units: mg/k HighLimit 133 130 128 131 120 8021B: Volat Units: mg/k HighLimit 133 130	5g %RPD tiles 5g %RPD 1.07 0.0846	RPDLimit 20 20	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	South Trench Sec nofluorobenzene 1810739-002A MS	.5 Batc Analysis I Result 0.56 0.61 0.61 1.9 0.63 D Samp .5 Batc Analysis I Result 0.57 0.61 0.61	h ID: B5 Date: 10 PQL 0.016 0.032 0.032 0.064 Type: MS h ID: B5 Date: 10 PQL 0.016 0.032 0.032	4834 x)12/2018 SPK value 0.6431 0.6431 1.929 0.6431 0.6431 5D 4834 0/12/2018 SPK value 0.6431 0.6431 0.6431 0.6431	R SPK Ref Val 0 0 0 0 Tesi SPK Ref Val 0 0 0 0	2unNo: 54 3eqNo: 14 %REC 87.0 94.6 95.5 97.4 98.5 10 14 2unNo: 54 3eqNo: 14 %REC 88.0 94.6 95.5	4834 822879 LowLimit 68.5 75 79.4 77.3 80 PA Method 4834 822880 LowLimit 68.5 75 79.4	Units: mg/k HighLimit 133 130 128 131 120 8021B: Volat Units: mg/k HighLimit 133 130 128	5g %RPD tiles 5g %RPD 1.07 0.0846 0.0314	RPDLimit 20 20 20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#:	1810739
	15-Oct-18

Client: Project:	Western Hospah	Refining Sout	hwest, Inc.							
Sample ID	LCS-40965	SampType	LCS	Test	tCode: EPA N	lethod	8021B: Volat	iles		
Client ID:	LCSS	Batch ID	40965	R	unNo: 54834	ļ				
Prep Date:	10/11/2018	Analysis Date	10/12/2018	S	eqNo: 18228	381	Units: %Red	;		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.96	1.000		96.3	80	120			
Sample ID	MB-40965	SampType	MBLK	Test	Code: EPA N	lethod	8021B: Volat	iles		
Client ID:	PBS	Batch ID	40965	R	unNo: 54834	1				
Prep Date:	10/11/2018	Analysis Date	10/12/2018	S	eqNo: 18228	382	Units: %Red	;		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC Lov	wLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Brom	ofluorobenzene	0.92	1.000		92.0	80	120			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 12 of 12

HALL ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 505-345-397	4901 Hawkins buquerque, NM 83	s NE 7105 Sam 4107	ple Log-In C	Check List
Client Name: Western Refining Southw	Work Order Numbe	r: 1810739		RcptNo	: 1
Received By: Victoria Zellar	10/12/2018 8:07:00 A	м	Victoria, Gell	an	
Completed By: Ashley Gallegos	10/12/2018 8:29:02 A	M	A		
Reviewed By: -5AB 10/12/18		label	led b	1	10/12/05
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗹	No 🗀	Not Present	
2. How was the sample delivered?		<u>Client</u>			
Log In				NA [7]	
3. Was an attempt made to cool the samples?		Yes 🗹	No 🛄	NA 🗌	
4. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
Sufficient sample volume for indicated test(s))?	Yes 🗹	No 🗌		
Are samples (except VOA and ONG) properly	y preserved?	Yes 🗹	No 🗌		
8. Was preservative added to bottles?		Yes 🗌	No 🗹	NA 🗆	
9. VOA vials have zero headspace?		Yes 🗌	No 🗌	No VOA Vials 🗹	70
0. Were any sample containers received broke	n?	Yes	No 🗹	# of preserved	
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗌	for pH:	10 (Z (8 >12 unless noted)
2. Are matrices correctly identified on Chain of (Custody?	Yes 🗹	No 🗆	Adjusted?	
3. Is it clear what analyses were requested?		Yes 🗹	No 🗆		
4. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	
pecial Handling (if applicable)				_	
15. Was client notified of all discrepancies with t	his order?	Yes	No 🗌	NA 🗹	
Person Notified:	Date			•]
By Whom:	Via: [eMail 🗌 Pl	none 🗌 Fax	In Person	
Regarding:					
Client Instructions:					
16. Additional remarks:	······································				
17. Cooler Information					
		Seal Date	Signed By		
1 3.3 Good Yes			1998 1998. Salar 1 1		
2 2.7 Good Yes					

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NO		www.rialieribilonintenda.com ns NE - Albuquerque, NM 87109	505 345 4107	lest					(AOV) E V-im92)			<u> </u>		-				 _					d on the a
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K Rush Same day				5169		3	Garciq	On Ice: VYYes □ No Sample Temneratine7A 0 39 4490633	e HEAL No.	(810739	-00	-002	-003	-004	-005	J00-	L00-				ال 1/1 کار الله الم/11 کے 1/11	M Date Time	aboratories. This serves as notice of the
Time		Da h		4500055169	iger:	Mat Kake	Saac	W/Yes	Preservative	Type	Cecl	11	11	11	1	11	ľ				Nor .	A May Sur	predited laborator
cord Turn-Around Time: ฑิเซโพย์ ั่้เป็า Standard เ	Project Name:	Hospan	Project #:	Pa# (Project Manager:	Mat #	14	On Ice: Sample Tem	Container	1ype and # <i>MccHlcf</i> -	1-402Jar		11	[]	11	ļļ	Ľ l				Keceryed by: LUMAL	Repeived by:	ntracted to other ad
Chain-of-Custody Record Western Refming Pypeline	1	CR4990	NM 87413	633-4169		🗌 Level 4 (Full Validation)			Sample Request ID	-	Exercised 13"	south treach sec.s West	South trench depression South Wall	Scuth trench depression North Wall	West Will 1		South treach depresion			•	The Mr	that	amples submitted to Hail Environmental may be subcontracted to other
I-of-CI		111	1	ζ, v]			C C C		Matrix		Sei.	No.		Soil	Seil	1:05	ا ا چ			Delinariot	MAN NA	Relimquished by	_
<mark>Chain-of-C</mark> ^{Client:} (Nes f evи		Mailing Address:	Bivowfield		email or Fax#:	QA/QC Package: K Standard	Accreditation		Time		10-11-18 7:48 4	$f_{15}\eta_{a}$	9:57a Soi	10%0a	10:104	10:14a	13:30	 				тіте: 1801	If necessary,
Client		Mailin	Bie	Phone #:	email	QA/Q(X Sta	Accreditati		Date		1-11-01	=		-	<u>_</u>	=				de de	id II K	Date: Vyfr Jly	-



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 20, 2018

Matt Krakow Western Refining Southwest, Inc. #50 CR 4990 Bloomfield, NM 87413 TEL: (505) 632-4135 FAX (505) 632-3911

RE: Hospah Clean Up

OrderNo.: 1811939

Dear Matt Krakow:

Hall Environmental Analysis Laboratory received 7 sample(s) on 11/17/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/20/2018

CLIENT: Western Refining Southwest, Inc. Project: Hospah Clean Up	c. Client Sample ID: Ex 2 N Wall Collection Date: 11/16/2018 9:00:00 AM									
Lab ID: 1811939-001	Matrix: SOIL		/17/2018 10:40:00 AM							
Analyses	Result	PQL	Qual Units	DF	Date Analyzed Batch					
EPA METHOD 300.0: ANIONS					Analyst: MRA					
Chloride	ND	30	mg/Kg	20	11/19/2018 10:49:29 AM 41613					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: Irm					
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/19/2018 10:21:31 AM 41607					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/19/2018 10:21:31 AM 41607					
Surr: DNOP	98.8	50.6-138	%Rec	1	11/19/2018 10:21:31 AM 41607					
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB					
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	11/19/2018 9:48:31 AM 41588					
Surr: BFB	87.7	73.8-119	%Rec	1	11/19/2018 9:48:31 AM 41588					
EPA METHOD 8021B: VOLATILES					Analyst: NSB					
Benzene	ND	0.020	mg/Kg	1	11/19/2018 9:48:31 AM 41588					
Toluene	ND	0.040	mg/Kg	1	11/19/2018 9:48:31 AM 41588					
Ethylbenzene	ND	0.040	mg/Kg	1	11/19/2018 9:48:31 AM 41588					
Xylenes, Total	ND	0.081	mg/Kg	1	11/19/2018 9:48:31 AM 41588					
Surr: 4-Bromofluorobenzene	92.4	80-120	%Rec	1	11/19/2018 9:48:31 AM 41588					

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Me

- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 7 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Date Reported: 11/20/2018

11/19/2018 10:11:10 AM 41588

CLIENT: Western Refining Southwest, In	c.	Client Sample ID: West Wall								
Project: Hospah Clean Up		Collection Date: 11/16/2018 9:05:00 AM								
Lab ID: 1811939-002	Matrix: SOIL		Received Date	e: 11	/17/2018 10:40:00 Al	М				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	st: MRA				
Chloride	87	30	mg/Kg	20	11/19/2018 11:01:53 /	AM 41613				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	st: Irm				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/19/2018 10:43:21	AM 41607				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/19/2018 10:43:21	AM 41607				
Surr: DNOP	107	50.6-138	%Rec	1	11/19/2018 10:43:21	AM 41607				
EPA METHOD 8015D: GASOLINE RANG	E				Analys	st: NSB				
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/19/2018 10:11:10	AM 41588				
Surr: BFB	89.0	73.8-119	%Rec	1	11/19/2018 10:11:10 /	AM 41588				
EPA METHOD 8021B: VOLATILES					Analys	st: NSB				
Benzene	ND	0.024	mg/Kg	1	11/19/2018 10:11:10	AM 41588				
Toluene	ND	0.048	mg/Kg	1	11/19/2018 10:11:10 /	AM 41588				
Ethylbenzene	ND	0.048	mg/Kg	1	11/19/2018 10:11:10 /	AM 41588				
Xylenes, Total	ND	0.097	mg/Kg	1	11/19/2018 10:11:10 /	AM 41588				

93.2

80-120

%Rec

1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quanitative Limit
	S	% Recovery outside of range due to dilution or matrix

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 7 J
- Sample pH Not In Range Р
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

Surr: 4-Bromofluorobenzene

Date Reported: 11/20/2018

11/19/2018 10:33:50 AM 41588

CLIENT: Western Refining Southwest, In	с.	Client Sample ID: East Wall								
Project: Hospah Clean Up		Collection Date: 11/16/2018 9:10:00 AM								
Lab ID: 1811939-003	Matrix: SOIL		Received Date: 11/17/2018 10:40:00 AM							
Analyses	Result	PQL	Qual Units	DF	Date Analyzed Ba	atch				
EPA METHOD 300.0: ANIONS					Analyst: M	RA				
Chloride	53	30	mg/Kg	20	11/19/2018 11:14:18 AM 4 ⁻	1613				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: Ir	m				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/19/2018 11:05:17 AM 4 ⁻	1607				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/19/2018 11:05:17 AM 4	1607				
Surr: DNOP	105	50.6-138	%Rec	1	11/19/2018 11:05:17 AM 4	1607				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: N	SB				
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	11/19/2018 10:33:50 AM 4 ⁻	1588				
Surr: BFB	89.8	73.8-119	%Rec	1	11/19/2018 10:33:50 AM 4	1588				
EPA METHOD 8021B: VOLATILES					Analyst: N	SB				
Benzene	ND	0.020	mg/Kg	1	11/19/2018 10:33:50 AM 4 ⁻	1588				
Toluene	ND	0.039	mg/Kg	1	11/19/2018 10:33:50 AM 4	1588				
Ethylbenzene	ND	0.039	mg/Kg	1	11/19/2018 10:33:50 AM 4	1588				
Xylenes, Total	ND	0.079	mg/Kg	1	11/19/2018 10:33:50 AM 4	1588				

92.6

80-120

%Rec

1

on.

Re	efer to the QC	Summary report a	nd sample	login cl	hecklist for	flagged	QC data an	d preservatio	n informat	ion
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Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	Holding times for preparation or analysis excee

Surr: 4-Bromofluorobenzene

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 7 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Date Reported: 11/20/2018

CLIENT: Western Refining Southwest, Inc.	с.	Client Sample ID: Bottom Collection Date: 11/16/2018 9:15:00 AM									
Project: Hospah Clean Up											
Lab ID: 1811939-004	Matrix: SOIL	L Received Date: 11/17/2018 10:40:00 AM									
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Anal	yst: MRA					
Chloride	35	30	mg/Kg	20	11/19/2018 11:26:42	2 AM 41613					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Anal	yst: Irm					
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	11/19/2018 11:27:09	9 AM 41607					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	11/19/2018 11:27:09	9 AM 41607					
Surr: DNOP	103	50.6-138	%Rec	1	11/19/2018 11:27:09	9 AM 41607					
EPA METHOD 8015D: GASOLINE RANG	E				Anal	yst: NSB					
Gasoline Range Organics (GRO)	ND	3.5	mg/Kg	1	11/19/2018 10:56:33	3 AM 41588					

Hall Environmental Analysis Laboratory, Inc.

Out			0.0	ing/itg	•	11/10/2010 10:00:00 / 10 41000
S	urr: BFB	90.1	73.8-119	%Rec	1	11/19/2018 10:56:33 AM 41588
EPA	METHOD 8021B: VOLATILES					Analyst: NSB
Ben	zene	ND	0.018	mg/Kg	1	11/19/2018 10:56:33 AM 41588
Tolu	iene	ND	0.035	mg/Kg	1	11/19/2018 10:56:33 AM 41588
Ethy	lbenzene	ND	0.035	mg/Kg	1	11/19/2018 10:56:33 AM 41588
Xyle	enes, Total	ND	0.070	mg/Kg	1	11/19/2018 10:56:33 AM 41588
S	urr: 4-Bromofluorobenzene	92.5	80-120	%Rec	1	11/19/2018 10:56:33 AM 41588

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	Н	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quanitative Limit
	S	% Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 7 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Date Reported: 11/20/2018

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.		Cl	ient Sample II	D: Bo	ottom 2				
Project: Hospah Clean Up	Collection Date: 11/16/2018 4:15:00 PM								
Lab ID: 1811939-005	Matrix: SOIL		Received Dat	e: 11	/17/2018 10:40:00 AM				
Analyses	Result	PQL	Qual Units	DF	Date Analyzed Batch				
EPA METHOD 300.0: ANIONS					Analyst: MRA				
Chloride	ND	30	mg/Kg	20	11/19/2018 11:39:06 AM 41613				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: Irm				
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/19/2018 11:49:11 AM 41607				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	11/19/2018 11:49:11 AM 41607				
Surr: DNOP	107	50.6-138	%Rec	1	11/19/2018 11:49:11 AM 41607				
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB				
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	11/19/2018 11:19:13 AM 41588				
Surr: BFB	87.2	73.8-119	%Rec	1	11/19/2018 11:19:13 AM 41588				
EPA METHOD 8021B: VOLATILES					Analyst: NSB				
Benzene	ND	0.020	mg/Kg	1	11/19/2018 11:19:13 AM 41588				
Toluene	ND	0.040	mg/Kg	1	11/19/2018 11:19:13 AM 41588				
Ethylbenzene	ND	0.040	mg/Kg	1	11/19/2018 11:19:13 AM 41588				
Xylenes, Total	ND	0.081	mg/Kg	1	11/19/2018 11:19:13 AM 41588				
Surr: 4-Bromofluorobenzene	89.9	80-120	%Rec	1	11/19/2018 11:19:13 AM 41588				

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the assoc

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: Hospah Clean Up

Date Reported: 11/20/2018 Client Sample ID: Trench Ramp Collection Date: 11/16/2018 4:45:00 PM

Lab ID: 1811939-006	Matrix: SOIL	Received Date: 11/17/2018 10:40:00 AM							
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Ana	lyst: MRA			
Chloride	ND	30	mg/Kg	20	11/19/2018 11:51:3 ⁻	1 AM 41613			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Ana	lyst: Irm			
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/19/2018 12:11:08	8 PM 41607			
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	11/19/2018 12:11:08	8 PM 41607			
Surr: DNOP	108	50.6-138	%Rec	1	11/19/2018 12:11:08	8 PM 41607			
EPA METHOD 8015D: GASOLINE RANG	E				Ana	lyst: NSB			
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	11/19/2018 11:41:50	6 AM 41588			
Surr: BFB	96.0	73.8-119	%Rec	1	11/19/2018 11:41:50	6 AM 41588			
EPA METHOD 8021B: VOLATILES					Ana	lyst: NSB			
Benzene	ND	0.021	mg/Kg	1	11/19/2018 11:41:5	6 AM 41588			
Toluene	ND	0.043	mg/Kg	1	11/19/2018 11:41:50	6 AM 41588			
Ethylbenzene	ND	0.043	mg/Kg	1	11/19/2018 11:41:50	6 AM 41588			
Xylenes, Total	ND	0.086	mg/Kg	1	11/19/2018 11:41:5	6 AM 41588			
Surr: 4-Bromofluorobenzene	91.8	80-120	%Rec	1	11/19/2018 11:41:50	6 AM 41588			

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В
	D	Sample Diluted Due to Matrix	Е
	Н	Holding times for preparation or analysis exceeded	J
	ND	Not Detected at the Reporting Limit	Р
	PQL	Practical Quanitative Limit	RL
	S	% Recovery outside of range due to dilution or matrix	W

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 7
- Sample pH Not In Range
- Reporting Detection Limit L
- Sample container temperature is out of limit as specified

Lab Order 1811939 Hall Environmental Analysis Laboratory, Inc. Date Reported: 11/20/2018 CLIENT: Western Refining Southwest, Inc. Client Sample ID: Bottom 3 **Project:** Hospah Clean Up Collection Date: 11/16/2018 4:20:00 PM Received Date: 11/17/2018 10:40:00 AM Lab ID: 1811939-007 Matrix: SOIL DF Date Analyzed Result **POL Oual Units** Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 20 1/19/2018 12:28:45 PM 41613 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: Irm **Diesel Range Organics (DRO)** 78 9.8 mg/Kg 11/19/2018 12:33:07 PM 41607 Motor Oil Range Organics (MRO) 88 mg/Kg 11/19/2018 12:33:07 PM 41607 49 1 Surr: DNOP %Rec 1 11/19/2018 12:33:07 PM 41607 104 50.6-138 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB ND 11/19/2018 12:04:36 PM 41588 Gasoline Range Organics (GRO) mg/Kg 49 1 Surr: BFB 95.5 73.8-119 %Rec 1 11/19/2018 12:04:36 PM 41588 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 0.025 Benzene ND mg/Kg 11/19/2018 12:04:36 PM 41588 1 Toluene ND 0.049 mg/Kg 1 11/19/2018 12:04:36 PM 41588 Ethylbenzene ND 0.049 mg/Kg 1 11/19/2018 12:04:36 PM 41588 Xylenes, Total ND 0.098 mg/Kg 11/19/2018 12:04:36 PM 41588 1 Surr: 4-Bromofluorobenzene 80-120 89 1 %Rec 1 11/19/2018 12:04:36 PM 41588 Soil From Sample Location Removed Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information. **Qualifiers:** * Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank В D Sample Diluted Due to Matrix Е Value above quantitation range

J

Р

RL

W

Analyte detected below quantitation limits

Sample container temperature is out of limit as specified

Sample pH Not In Range

Reporting Detection Limit

Page 7 of 7

Η

ND

S

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

Analytical Report

HALL	
ENVIRONMENTAL	
ANALYSIS	
LABORATORY	

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Western Refining South	w Work Order Nun	nber: 1811939		RcptNo: 1
Received By: Jazzmine Burkhead	11/17/2018 10:40:	00 AM	figiri Easthail Anne An	
Completed By: Anne Thorne	11/19/2018 7:45:1	1 AM	Den M.	
Reviewed By: JAB 11/19 Labert by: AT 11/1	18 9/18		Gana Jr.	-
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🔽	No 🗌	Not Present
2. How was the sample delivered?		<u>Courier</u>		
Log In				
3. Was an attempt made to cool the samp	ies?	Yes 🗹	No 🗌	
4. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient sample volume for indicated to	est(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗀	
8. Was preservative added to bottles?		Yes	No 🔽	NA 🗔
9. VOA vials have zero headspace?		Yes 🗀	No 🗌	No VOA Vials 🗹
10. Were any sample containers received b	roken?	Yes 🗆	No 🗹 🛛	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody))	Yes 🗹	No 🗌	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Are matrices correctly identified on Chain		Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses were requested	?	Yes 🗹	No 🗌	
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:
Special Handling (if applicable)		ASIL	119118	
15. Was client notified of all discrepancies v	vith this order?	Yes 🗶	No 🗀	NAS
Person Notified: MK By Whom: AF	Date Via:	p	hone 🗌 Fax	in Person
Regarding: Bottom	3 Sando	not on	COL	
Client Instructions:		tococ	<u>/-</u>	
16. Additional remarks:			- 111	1915
17. <u>Cooler Information</u> Cooler No Temp C Condition 1 2.1 Good	Seal Intact Seal No Yes	Seal Date	Signed By	

	HALL ENVIRONMENTAL ANALYSIS LABORATORY	ntal.com	Albuquerque, NM 87109	505-345-4107	quest				P T T T T T T T T T T T T T T T T T T T	(AC ۷-in ۱۵	V) 8092 270 (Sen 1/ //	3	X	×	\prec	Т Х	X	×					tated on the analytical report.
I	D HALL ENVI	www.hallenvironmental.com	4901 Hawkins NE - Albuquerq	10	Analysis	(*C	9S'*Od (SW	(1.1 (1.1 (1.1 (1.1)	418 703 205 705	CI,N deta hod hod	PH 8015 PH (Met DB (Met PH's (83 PH's (83 PH's (83 PH's (7, PH's (7, PH's PH's PH's PH's PH's PH's PH's PH's	/ 				X	X					(onse)	nv sub-contracted data will be clearly no
	Sami Dau	*	Clean-UP 490	Tel		(ʎju	0 88Đ) H91	+ =	181	HEAL No HEAL No 1 국 / I 국 국 의		X 202	X 802	X 102	X 202	7 db K	X			1)/u/ls 1965	here IIII Time	* This serves as notice of this possibility. Ar
Turn-Around Time:	□ Standard K Rush	Project Name:	T HOSPAH Cle	Project #:		Project Manager:	Mett Febu	2	On Ice: JY es: V	Sample Temperature: 1.1	Type and # Type	Posper Cold	1 20H(1)				1				Received by: CUNNA W QUL	Received by: Wand Ing	contracted to other accredited laboratoriae
Chain-of-Custody Record	client: Western Repairing	,	Mailing Address: 11) CR4990	Bloomfield, NM B7413		email or Fax#:	QA/QC Package: MStandard □ 1 evel 4 (Full Validation)				Date Time Matrix Sample Request ID	11-16 900 Soil EX & N. Wall	1 gost [west wall	910 Fexture/		inis Buttom 2	<u>م</u> ک	Illeris Ilezo Bottom S			$\langle \cdot \rangle$		If necessary samples submitted to Hall Environmental may be subcontracted to other accordings. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report



Analytical Report

Report Summary

Client: Andeavor Chain Of Custody Number: Samples Received: 11/20/2018 3:52:00PM Job Number: 07232-0026 Work Order: P811063 Project Name/Location: Haspah

Walter Hinkin

Date:

11/26/18

Report Reviewed By:

Walter Hinchman, Laboratory Director

Tim Cain, Project Manager

Date: 11/26/18



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (505) 632-0615 Fx (505) 632-1865 Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com laboratory@envirotech-inc.com



Andeavor	Project Name:	Haspah	
3303 N 1st St	Project Number:	07232-0026	Reported:
Bloomfield NM, 87401	Project Manager:	Felipe Aragon	11/26/18 16:48

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Trench #2 + 2'	P811063-01A	Soil	11/20/18	11/20/18	Glass Jar, 4 oz.
	P811063-01B	Soil	11/20/18	11/20/18	Glass Jar, 4 oz.

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Page 2 of 9



Andeavor	Project	Hasp	ah						
3303 N 1st St	Project	0723	2-0026				Reported:		
Bloomfield NM, 87401	Project	Felip	e Aragon				11/26/18 16:48		
		Trei	nch #2 +	2'					
			63-01 (So	olid)					
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Toluene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Ethylbenzene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
p,m-Xylene	ND	200	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
o-Xylene	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total Xylenes	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Total BTEX	ND	100	ug/kg	1	1847017	11/20/18	11/21/18	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		98.3 %	50	-150	1847017	11/20/18	11/21/18	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1847017	11/20/18	11/21/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1847021	11/20/18	11/21/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1847021	11/20/18	11/21/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	50	-150	1847017	11/20/18	11/21/18	EPA 8015D	
Surrogate: n-Nonane		93.8 %	50	-200	1847021	11/20/18	11/21/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1847023	11/21/18	11/21/18	EPA 300.0/9056A	

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Andeavor	Project Name:	Haspah	
3303 N 1st St	Project Number:	07232-0026	Reported:
Bloomfield NM, 87401	Project Manager:	Felipe Aragon	11/26/18 16:48

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	Ľ	nvn oteen i	inary ti		atory					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Kesuit	Limit	Units	Level	Kesun	%REC	Limits	KPD	Limit	Notes
Batch 1847017 - Purge and Trap EPA 5030A										
Blank (1847017-BLK1)				Prepared: 1	1/20/18 0 A	Analyzed: 1	1/20/18 1			
Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
Surrogate: 4-Bromochlorobenzene-PID	7900		"	8000		98.8	50-150			
LCS (1847017-BS1)				Prepared: 1	1/20/18 0 A	Analyzed: 1	1/20/18 1			
Benzene	5070	100	ug/kg	5000		101	70-130			
Toluene	5180	100	"	5000		104	70-130			
Ethylbenzene	5260	100	"	5000		105	70-130			
p,m-Xylene	10800	200	"	10000		108	70-130			
o-Xylene	5230	100	"	5000		105	70-130			
Total Xylenes	16000	100	"	15000		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7980		"	8000		99.8	50-150			
Matrix Spike (1847017-MS1)	Sou	ırce: P811050-	01	Prepared: 1	1/20/18 0 A	Analyzed: 1	1/21/18 0			
Benzene	5370	100	ug/kg	5000	ND	107	54.3-133			
Toluene	5500	100	"	5000	ND	110	61.4-130			
Ethylbenzene	5600	100	"	5000	ND	112	61.4-133			
p,m-Xylene	11400	200	"	10000	ND	114	63.3-131			
o-Xylene	5520	100	"	5000	ND	110	63.3-131			
Total Xylenes	17000	100	"	15000	ND	113	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	8000		"	8000		100	50-150			
Matrix Spike Dup (1847017-MSD1)	Sou	ırce: P811050-	01	Prepared:	1/20/18 0 A	Analyzed: 1	1/20/18 2			
Benzene	5270	100	ug/kg	5000	ND	105	54.3-133	1.89	20	
Toluene	5410	100	"	5000	ND	108	61.4-130	1.76	20	
Ethylbenzene	5510	100	"	5000	ND	110	61.4-133	1.54	20	
p,m-Xylene	11300	200	"	10000	ND	113	63.3-131	1.43	20	
o-Xylene	5470	100	"	5000	ND	109	63.3-131	0.982	20	
Total Xylenes	16800	100	"	15000	ND	112	63.3-131	1.28	20	
Surrogate: 4-Bromochlorobenzene-PID	8130		"	8000		102	50-150			

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Andeavor	Project Name:	Haspah	
3303 N 1st St	Project Number:	07232-0026	Reported:
Bloomfield NM, 87401	Project Manager:	Felipe Aragon	11/26/18 16:48

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

			-		-					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1847017 - Purge and Trap EPA 5030A										
Blank (1847017-BLK1)				Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		"	8.00		106	50-150			
LCS (1847017-BS2)				Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 2			
Gasoline Range Organics (C6-C10)	53.2	20.0	mg/kg	50.0		106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		"	8.00		106	50-150			
Matrix Spike (1847017-MS2)	Sou	rce: P811050-	01	Prepared:	11/20/18 0 A	Analyzed: 1	1/20/18 2			
Gasoline Range Organics (C6-C10)	53.1	20.0	mg/kg	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		"	8.00		105	50-150			
Matrix Spike Dup (1847017-MSD2)	Sou	rce: P811050-	01	Prepared:	11/20/18 0 4	Analyzed: 1	1/20/18 2			
Gasoline Range Organics (C6-C10)	45.0	20.0	mg/kg	50.0	ND	90.1	70-130	16.4	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		"	8.00		107	50-150			

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Andeavor	Project Name:	Haspah	
3303 N 1st St	Project Number:	07232-0026	Reported:
Bloomfield NM, 87401	Project Manager:	Felipe Aragon	11/26/18 16:48

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

			·		·					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1847021 - DRO Extraction EPA 3570										
Blank (1847021-BLK1)				Prepared:	11/20/18 1 A	Analyzed: 1	1/21/18 0			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
Surrogate: n-Nonane	44.4		"	50.0		88.8	50-200			
LCS (1847021-BS1)				Prepared:	11/20/18 1 A	Analyzed: 1	1/21/18 0			
Diesel Range Organics (C10-C28)	445	25.0	mg/kg	500		89.1	38-132			
Surrogate: n-Nonane	45.3		"	50.0		90.6	50-200			
Matrix Spike (1847021-MS1)	Sou	rce: P811063-	01	Prepared:	11/20/18 1 A	Analyzed: 1	1/21/18 0			
Diesel Range Organics (C10-C28)	491	25.0	mg/kg	500	ND	98.2	38-132			
Surrogate: n-Nonane	46.1		"	50.0		92.1	50-200			
Matrix Spike Dup (1847021-MSD1)	Sou	rce: P811063-	01	Prepared:	11/20/18 1 A	Analyzed: 1	1/21/18 1			
Diesel Range Organics (C10-C28)	477	25.0	mg/kg	500	ND	95.4	38-132	2.89	20	
Surrogate: n-Nonane	46.2		"	50.0		92.4	50-200			

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Andeavor	Project Name:	Haspah	
3303 N 1st St	Project Number:	07232-0026	Reported:
Bloomfield NM, 87401	Project Manager:	Felipe Aragon	11/26/18 16:48

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

			-		-					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1847023 - Anion Extraction EPA 3)0.0/9056A									
Blank (1847023-BLK1)				Prepared: 1	1/21/18 0 A	Analyzed: 1	1/21/18 1			
Chloride	ND	20.0	mg/kg							
LCS (1847023-BS1)				Prepared: 1	1/21/18 0 A	Analyzed: 1	1/21/18 1			
Chloride	258	20.0	mg/kg	250		103	90-110			
Matrix Spike (1847023-MS1)	Sour	ce: P811063-	01	Prepared: 11/21/18 0 Analyzed: 11/21/18						
Chloride	259	20.0	mg/kg	250	ND	104	80-120			
Matrix Spike Dup (1847023-MSD1)	Prepared: 1	1/21/18 0 A	Analyzed: 1	1/21/18 1						
Chloride	262	20.0	mg/kg	250	ND	105	80-120	1.20	20	

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Andeavor	Project Name:	Haspah	
3303 N 1st St	Project Number:	07232-0026	Reported:
Bloomfield NM, 87401	Project Manager:	Felipe Aragon	11/26/18 16:48

Notes and Definitions

Analyte DETECTED
Analyte DETECTEI

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

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Project I	nformati	on				Chain of Cu	stody												Pa	age <u> </u>	of
Client:	Andra	101		you		Report Attention				La	b Us	se On	ly :	1 .			AT		EP	A Progra	m
Project:	Haspa	h			<u> </u> R	eport due by:		Lab	WO	ŧ		Job	Nun	nber		_	3D			CWA	SDWA
Project N	Manager:	Feb.	e Ara	yo -	_ A	ttention:		P	340	16	3	07	232	-00	26	X		X			
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Time Sampled	Date Sampled	Matrix	No Container:	Sample	ID		Lab Number	DRO/ORO	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1					ся •	Ren	narks
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Relinguish	ed by: (Sig	nature)	Dat	e 120/18	Time 15:5/3	Received by (Signature)	Date	18	Time	52	X	Rece	eive	d on	ice:		ib Us	ie On N	ly		
Relinquish	ed by: (Sig	nature)	Dat	e	Time	Received by: (Signature)	Date	-	Time			T1 AVG	Ter	np °C	4	<u>T2</u>				<u>T3</u>	
Sample Mat	rix: S - Soil, :	Sd - Solid, S	g - Sludge,	A - Aqueous	, O - Other	·	Containe	r Typ	e: g -	glass	s, p -	poly/	plas	tic, ag	g - ar	nber	glass	i, vÌ-V	'OA		
	en	vir	ot	ect borator	1 iboratory wi	er arrangements are made. Hazardous sam th this COC. The liability of the laboraotry i 5746 US Highway 64, Farmingto Three Springs - 65 Merrado Stre	is limited to th	ne amo	ount pa		on th		rt. 532-061	5 Fx 50	5 632	1865	The re	eport fo	or the		the above envirotech-In @envirotech-In



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

January 29, 2019

Matt Krakow Andeavor Bloomfield 111 CR 4990 Bloomfield, NM 87413 TEL: (505) 801-5616 FAX

OrderNo.: 1901A29

RE: Hospah Spill Clean Up

Dear Matt Krakow:

Hall Environmental Analysis Laboratory received 7 sample(s) on 1/26/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1901A29

Hall Environmenta	l Analysis	Laboratory,	Inc.
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Date Reported: 1/29/2019

CLIENT: Andeavor Bloomfield		Cl	ient Sample II	D: No	ortheast		
Project: Hospah Spill Clean Up		(Collection Dat	e: 1/2	25/2019 10:54:00 AM		
Lab ID: 1901A29-001	Matrix: SOIL Received Date: 1/26/2019 9:45:00 AM						
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analyst	MRA	
Chloride	ND	30	mg/Kg	20	1/26/2019 12:44:33 PM	42826	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: TOM	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/26/2019 12:57:13 PM	42825	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/26/2019 12:57:13 PM	42825	
Surr: DNOP	86.6	50.6-138	%Rec	1	1/26/2019 12:57:13 PN	42825	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	: NSB	
Gasoline Range Organics (GRO)	ND	3.9	mg/Kg	1	1/26/2019 1:18:02 PM	G57279	
Surr: BFB	96.6	73.8-119	%Rec	1	1/26/2019 1:18:02 PM	G57279	
EPA METHOD 8021B: VOLATILES					Analyst	: NSB	
Benzene	ND	0.020	mg/Kg	1	1/26/2019 1:18:02 PM	B57279	
Toluene	ND	0.039	mg/Kg	1	1/26/2019 1:18:02 PM	B57279	
Ethylbenzene	ND	0.039	mg/Kg	1	1/26/2019 1:18:02 PM	B57279	
Xylenes, Total	ND	0.079	mg/Kg	1	1/26/2019 1:18:02 PM	B57279	
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1	1/26/2019 1:18:02 PM	B57279	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1901A29 Date Reported: 1/29/2019

Hall Environmental Analysis	Laboratory, Inc.
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CLIENT: Andeavor Bloomfield

1901A29-002

Hospah Spill Clean Up

Project:

Lab ID:

Client Sample ID: West N. End Collection Date: 1/25/2019 10:59:00 AM Received Date: 1/26/2019 9:45:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	MRA		
Chloride	ND	30	mg/Kg	20	1/26/2019 12:56:58 PM	42826		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	ТОМ		
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/26/2019 2:09:19 PM	42825		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/26/2019 2:09:19 PM	42825		
Surr: DNOP	80.7	50.6-138	%Rec	1	1/26/2019 2:09:19 PM	42825		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	NSB		
Gasoline Range Organics (GRO)	ND	4.1	mg/Kg	1	1/26/2019 2:28:43 PM	G57279		
Surr: BFB	96.6	73.8-119	%Rec	1	1/26/2019 2:28:43 PM	G57279		
EPA METHOD 8021B: VOLATILES					Analyst	NSB		
Benzene	ND	0.021	mg/Kg	1	1/26/2019 2:28:43 PM	B57279		
Toluene	ND	0.041	mg/Kg	1	1/26/2019 2:28:43 PM	B57279		
Ethylbenzene	ND	0.041	mg/Kg	1	1/26/2019 2:28:43 PM	B57279		
Xylenes, Total	ND	0.083	mg/Kg	1	1/26/2019 2:28:43 PM	B57279		
Surr: 4-Bromofluorobenzene	96.6	80-120	%Rec	1	1/26/2019 2:28:43 PM	B57279		

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1901A29

Hall Environmental Analysis Laboratory, Inc.	

CLIENT:	Andeavor Bloomfield		Cl	ient Sample II	D: No	orthwest						
Project:	Hospah Spill Clean Up		Collection Date: 1/25/2019 10:56:00 AM									
Lab ID:	1901A29-003	Matrix: SOIL Received Date: 1/26/2019 9:45:00 AM										
Analyses		Result	PQL	Qual Units	DF	Date Analyzed	Batch					
EPA MET	HOD 300.0: ANIONS					Analyst	MRA					
Chloride		ND	30	mg/Kg	20	1/26/2019 1:09:23 PM	42826					
EPA MET	HOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	ТОМ					
Diesel R	ange Organics (DRO)	27	9.7	mg/Kg	1	1/27/2019 6:21:18 AM	42825					
Motor Oi	l Range Organics (MRO)	61	49	mg/Kg	1	1/27/2019 6:21:18 AM	42825					
Surr: [ONOP	86.4	50.6-138	%Rec	1	1/27/2019 6:21:18 AM	42825					
EPA MET	HOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB					
Gasoline	Range Organics (GRO)	ND	3.7	mg/Kg	1	1/26/2019 3:39:20 PM	G57279					
Surr: E	3FB	92.5	73.8-119	%Rec	1	1/26/2019 3:39:20 PM	G57279					
EPA MET	HOD 8021B: VOLATILES					Analyst	: NSB					
Benzene		ND	0.019	mg/Kg	1	1/26/2019 3:39:20 PM	B57279					
Toluene		ND	0.037	mg/Kg	1	1/26/2019 3:39:20 PM	B57279					
Ethylben	zene	ND	0.037	mg/Kg	1	1/26/2019 3:39:20 PM	B57279					
Xylenes,	Total	ND	0.074	mg/Kg	1	1/26/2019 3:39:20 PM	B57279					
Surr: 4	1-Bromofluorobenzene	92.6	80-120	%Rec	1	1/26/2019 3:39:20 PM	B57279					

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 13 J
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1901A29 Date Reported: 1/29/2019

1/26/2019 4:02:32 PM

1/26/2019 4:02:32 PM

1/26/2019 4:02:32 PM

1/26/2019 4:02:32 PM

1/26/2019 4:02:32 PM B57279

B57279

B57279

B57279

B57279

CLIENT: Andeavor Bloomfield		Client Sample ID: West Bottom N. End									
Project: Hospah Spill Clean Up	Collection Date: 1/25/2019 11:01:00 AM										
Lab ID: 1901A29-004	Matrix: SOIL Received Date: 1/26/2019 9:45:00 AM										
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	t: MRA					
Chloride	ND	30	mg/Kg	20	1/26/2019 1:21:48 PM	42826					
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: TOM					
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/26/2019 3:21:14 PM	42825					
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/26/2019 3:21:14 PM	42825					
Surr: DNOP	86.8	50.6-138	%Rec	1	1/26/2019 3:21:14 PM	42825					
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB					
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	1/26/2019 4:02:32 PM	G57279					
Surr: BFB	96.3	73.8-119	%Rec	1	1/26/2019 4:02:32 PM	G57279					
EPA METHOD 8021B: VOLATILES					Analys	t: NSB					

ND

ND

ND

ND

95.0

0.022

0.044

0.044

0.088

80-120

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

1

1

1

1

Hall Environmental Analysis Laboratory, Inc.

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Oualifiers:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- * Value exceeds Maximum Contaminant Level. D
- Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report Lab Order 1901A29 Date Reported: 1/29/2019

CLIENT: Andeavor Bloomfield Project: Hospah Spill Clean Up	Client Sample ID: East Bottom N. Side Collection Date: 1/25/2019 11:10:00 AM								
Lab ID: 1901A29-005	Matrix: SOIL Received Date: 1/26/2019 9:45:00 AM								
Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	MRA			
Chloride	ND	30	mg/Kg	20	1/26/2019 1:34:13 PM	42826			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	: ТОМ			
Diesel Range Organics (DRO)	49	10	mg/Kg	1	1/26/2019 3:45:17 PM	42825			
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	1/26/2019 3:45:17 PM	42825			
Surr: DNOP	90.6	50.6-138	%Rec	1	1/26/2019 3:45:17 PM	42825			
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	: NSB			
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	1/26/2019 4:26:03 PM	G57279			
Surr: BFB	96.5	73.8-119	%Rec	1	1/26/2019 4:26:03 PM	G57279			
EPA METHOD 8021B: VOLATILES					Analys	: NSB			
Benzene	ND	0.021	mg/Kg	1	1/26/2019 4:26:03 PM	B57279			
Toluene	ND	0.042	mg/Kg	1	1/26/2019 4:26:03 PM	B57279			
Ethylbenzene	ND	0.042	mg/Kg	1	1/26/2019 4:26:03 PM	B57279			
Xylenes, Total	ND	0.084	mg/Kg	1	1/26/2019 4:26:03 PM	B57279			
Surr: 4-Bromofluorobenzene	94.6	80-120	%Rec	1	1/26/2019 4:26:03 PM	B57279			

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Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 5 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1901A29

CLIENT: Project: Lab ID:	Andeavor Bloomfield Hospah Spill Clean Up 1901A29-006	ah Spill Clean Up					Client Sample ID: Deep Well Grab Collection Date: 1/25/2019 11:20:00 AM Received Date: 1/26/2019 9:45:00 AM						
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch					
EPA MET	HOD 300.0: ANIONS						Analyst	MRA					
Chloride		ND	30		mg/Kg	20	1/26/2019 1:46:38 PM	42826					
EPA MET	HOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	том					
Diesel R	ange Organics (DRO)	10000	480		mg/Kg	50	1/27/2019 7:33:24 AM	42825					
	I Range Organics (MRO)	4900	2400		mg/Kg	50	1/27/2019 7:33:24 AM	42825					
Surr: [0	50.6-138	S	%Rec	50	1/27/2019 7:33:24 AM	42825					
	HOD 8015D: GASOLINE RAI	NGF					Analyst	NSB					
	Range Organics (GRO)	280	37		mg/Kg	10	1/28/2019 9:26:42 AM	42823					
Surr: E		331	73.8-119	S	%Rec	10	1/28/2019 9:26:42 AM	42823					
		001	70.0-110	Ŭ	/01/000	10							
	HOD 8021B: VOLATILES						Analyst						
Benzene		0.041	0.019		mg/Kg	1	1/26/2019 4:49:27 PM	B5727					
Toluene		1.8	0.037		mg/Kg	1	1/26/2019 4:49:27 PM	B5727					
Ethylben		1.6	0.037		mg/Kg	1	1/26/2019 4:49:27 PM	B5727					
Xylenes,	1-Bromofluorobenzene	17 110	0.74 80-120		mg/Kg %Rec	10 10	1/28/2019 9:26:42 AM 1/28/2019 9:26:42 AM	42823 42823					
			Soil Fro	om Sa	ample	Loc	ation Removed						
			Soil Fro	om Sa	ample	Loc	ation Removed						
Re Qualifiers:	D Sample Diluted Due to Ma	Contaminant Level. atrix	klist for fla E	gged (3 Ana 3 Valu	2C data a lyte detect ue above q	and p	preservation informatio	k					
	 * Value exceeds Maximum D Sample Diluted Due to Ma H Holding times for preparat 	Contaminant Level. atrix tion or analysis exceeded	klist for fla E J	gged (3 Ana 5 Valu Ana	QC data a lyte detect ue above q lyte detect	and p ed in t uantitat ed bel	preservation information the associated Method Bland ation range ow quantitation limits Page	k					
	* Value exceeds MaximumD Sample Diluted Due to Maximum	Contaminant Level. atrix tion or analysis exceeded ting Limit	klist for fla E	gged (3 Ana 2 Valu 7 Ana 2 Sarr	2C data a lyte detect ue above q	ed in t uantita ed bel ot In R	preservation information the associated Method Bland ation range ow quantitation limits Page ange	k					

Analytical Report

Lab Order 1901A29

Date Reported: 1/29/2019

CLIENT:	Andeavor Bloomfield		Cl	ient Sa	mple II	D: De	ep Well Bottom			
Project:	Hospah Spill Clean Up		(Collect	ion Dat	e: 1/2	25/2019 11:30:00 AM			
Lab ID:	1901A29-007	Matrix: SOIL Received Date: 1/26/2019 9:45:00 AM								
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	Batch		
EPA METH	HOD 300.0: ANIONS						Analyst	MRA		
Chloride		ND	30		mg/Kg	20	1/26/2019 1:59:03 PM	42826		
	HOD 8015M/D: DIESEL RAN	GE ORGANICS					Analyst	том		
	nge Organics (DRO)	390	9.6		mg/Kg	1	1/26/2019 4:57:23 PM	42825		
	Range Organics (MRO)	210	48		mg/Kg	1	//26/2019 4:57:23 PM	42825		
Surr: DI		98.2	40 50.6-138		%Rec	1	1/26/2019 4:57:23 PM	42825		
			50.0-150		/orvec					
	HOD 8015D: GASOLINE RAI						Analyst			
	Range Organics (GRO)	ND	4.1		mg/Ko	1	1/26/2019 5:36:20 PM	G5727		
Surr: BF	FB	97.4	73.8-119		%Rec	1	1/26/2019 5:36:20 PM	G572		
EPA METH	HOD 8021B: VOLATILES						Analyst	: NSB		
Benzene		ND	0.020		mg/Kg	1	1/26/2019 5:36:20 PM	B572		
Toluene		ND	0.041		mg/Kg	1	1/26/2019 5:36:20 PM	B572		
Ethylbenze	ene	ND	0.041		mg/Kg	1	1/26/2019 5:36:20 PM	B572		
Xylenes, T	Fotal	ND	0.082		mg/Kg	1	1/26/2019 5:36:20 PM	B572		
Surr: 4-	Bromofluorobenzene	93.7	80-120		%Rec	1	1/26/2019 5:36:20 PM	B572		
				Soil	From \$	Sam	ple Location Rer	nove		
				Soil	From \$	Sam	ple Location Rer	nove		
				Soil	From \$	Sam	ple Location Rer	noved		
				Soil	From \$	Sam	ple Location Rer	nove		
				Soil	From \$	Sarr	ple Location Rer	noveo		
				Soil	From \$	Sam	ple Location Rer	noved		
				Soil	From \$	Sam	ple Location Rer	nove		
							·			
/	er to the QC Summary report			ıgged (QC data a	and p	oreservation informatio	n.		
Refe Qualifier:	* Value exceeds Maximum	Contaminant Level.	E	gged (3 Ana	QC data	and p	preservation informatio	n.		
/	Value exceeds MaximumD Sample Diluted Due to Maximum	Contaminant Level.	E	igged (3 Ana 3 Vali	QC data	and p ted in t	preservation informatio the associated Method Bland ation range	n.		
/	 Value exceeds Maximum D Sample Diluted Due to Ma H Holding times for preparat 	Contaminant Level. atrix ion or analysis exceeded	E	ngged (3 Ana 3 Valu 1 Ana	C data	and p ted in t uantit	oreservation informatio the associated Method Bland ation range ow quantitation limits Page	n.		
/	Value exceeds MaximumD Sample Diluted Due to Maximum	Contaminant Level. atrix ion or analysis exceeded ting Limit	E	agged (3 Ana 5 Valu 7 Ana 9 Sam	QC data	and p red in 1 juantit red bel	preservation informatio the associated Method Bland ation range low quantitation limits ange	n.		

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S % Recovery outside of range due to dilution or matrix

W Sample container temperature is out of limit as specified

WO#:	1901A	29
	20 T	

29-Jan-19

Client: Project:		eavor Bloomfie pah Spill Clean									
Sample ID	MB-42826	SampT	ype: m l	olk	Tes	tCode: El	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	n ID: 42	826	F	RunNo: 5	7281				
Prep Date:	1/26/2019	Analysis D	ate: 1/	26/2019	5	SeqNo: 1	915958	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-42826	SampT	ype: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 42	826	F	RunNo: 5	7281				
Prep Date:	1/26/2019	Analysis D	ate: 1/	26/2019	5	SeqNo: 1	915959	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	97.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#:	1901A29
	29-Jan-19

Client: Project:		or Bloomfie Spill Clean									
Sample ID	MB-42825	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	n ID: 42	825	F	RunNo: 5					
Prep Date:	1/26/2019	Analysis D)ate: 1/	26/2019	S	SeqNo: 1	915620	Units: mg/k			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	Organics (DRO)	ND	10								
-	e Organics (MRO)	ND	50								
Surr: DNOP		8.3		10.00		83.4	50.6	138			
Sample ID	LCS-42825	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	n ID: 42	825	F						
Prep Date:	1/26/2019	Analysis D)ate: 1/	26/2019	5	SeqNo: 1	915625	Units: mg/			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	40	10	50.00	0	79.3	63.9	124			
Surr: DNOP		4.2		5.000		84.1	50.6	138			
Sample ID	1901A29-001AMS	SampT	уре: М	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	Northeast	Batch	n ID: 42	825	F	RunNo: 5	7277				
Prep Date:	1/26/2019	Analysis D)ate: 1/	26/2019	S	SeqNo: 1	915760	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	42	9.4	47.17	0	88.9	53.5	126			
Surr: DNOP		4.2		4.717		90.0	50.6	138			
Sample ID	1901A29-001AMS	D SampT	уре: М	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	Northeast	Batch	n ID: 42	825	F	RunNo: 5	7277				
Prep Date:	1/26/2019	Analysis D)ate: 1/	26/2019	S	SeqNo: 1	915761	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0	Organics (DRO)	43	10	49.75	0	86.4	53.5	126	2.50	21.7	
Surr: DNOP		4.6		4.975		91.8	50.6	138	0	0	

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 9 of 13

WO#:	1901A29

29-Jan-19

	or Bloomfield Spill Clean Up										
Sample ID RB	SampType: ME		Tes	tCode: FI	PA Method	8015D: Gaso	line Rang	•			
Client ID: PBS	Batch ID: G5			RunNo: 5		0015D. Gast	ine Kang	6			
Prep Date:	Analysis Date: 1/2			SeqNo: 1		Units: mg/k	/Κα				
Analyte	Result PQL		SPK Ref Val	•		HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 980	1000		98.4	73.8	119			Quui		
Sample ID 2.5UG GRO LCS	S SampType: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e			
Client ID: LCSS	Batch ID: G5	7279	F	RunNo: 5	7279						
Prep Date:	Analysis Date: 1/2	26/2019	S	SeqNo: 1	915776	Units: mg/k	ζg				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	27 5.0	25.00	0	107	80.1	123					
Surr: BFB	1100	1000		110	73.8	119					
Sample ID 1901A29-001AM	S SampType: MS	5	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: Northeast	Batch ID: G5	7279	F	RunNo: 5	7279						
Prep Date:	Analysis Date: 1/2	26/2019	S	SeqNo: 1	915778	Units: mg/k	(g				
Analyte	Result PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	21 3.9	19.65	0	105	69.1	142					
Surr: BFB	880	786.2		112	73.8	119					
Sample ID 1901A29-001AM	SD SampType: MS	D	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: Northeast	Batch ID: G5	7279	F	RunNo: 5	7279						
Prep Date:	Analysis Date: 1/2	26/2019	S	SeqNo: 1	915779	Units: mg/k	(g				
Analyte			SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	19 3.9 810	19.65 786.2	0	98.8 103	69.1 73.8	142 119	6.01 0	20 0			
	810	700.2		103	75.0	119	0	0			
Sample ID MB-42823	SampType: ME					8015D: Gaso	oline Rang	e			
Client ID: PBS	Batch ID: 428			RunNo: 5							
Prep Date: 1/25/2019	Analysis Date: 1/2	28/2019	S	SeqNo: 1	917158	Units: mg/k	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 970	1000		96.9	73.8	119					
Sample ID LCS-42823	SampType: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e			
Client ID: LCSS	Batch ID: 428	323	F	RunNo: 5	7296		-				
Prep Date: 1/25/2019	Analysis Date: 1/	28/2019	S	SeqNo: 1	917159	Units: mg/k	ſg				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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	Andeavor Bloomfie Hospah Spill Clean									
Sample ID LCS-42	323 SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch	ID: 42	823	F	RunNo: 5	7296				
Prep Date: 1/25/20	Analysis Da	ate: 1/	28/2019	S	SeqNo: 1	917159	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) 27	5.0	25.00	0	110	80.1	123			
Surr: BFB	1100		1000		107	73.8	119			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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Client:	Andeavor Blo	oomfield									
Project:	Hospah Spill	Clean Up									
Sample ID RB		SampType	: ME	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS		Batch ID	: B5	7279	F	RunNo: 5	7279				
Prep Date:	Ana	alysis Date	: 1/	26/2019	S	915802	Units: mg/K				
Analyte	R	esult P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND 0.	025								
Toluene		ND 0.	050								
Ethylbenzene		ND 0.	050								
Xylenes, Total		ND (0.10								
Surr: 4-Bromofluorol	benzene	0.97		1.000		97.0	80	120			
Sample ID 100N	G BTEX LCS	SampType	: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSS	5	Batch ID	: B5	7279	F	RunNo: 5	7279				
Prep Date:	Ana	alysis Date	: 1/	26/2019	S	SeqNo: 1	915803	Units: mg/K	g		
Analyte	R	esult P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.85 0.	025	1.000	0	84.7	80	120			
Toluene		0.88 0.	050	1.000	0	88.2	80	120			
Ethylbenzene		0.89 0.	050	1.000	0	89.2	80	120			
Xylenes, Total		2.7 (0.10	3.000	0	90.0	80	120			

Sample ID 1901A29-002AMS	SampT	уре: М	6	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: West N. End	Batch	n ID: B5	7279	R	RunNo: 5	7279				
Prep Date:	Analysis D	0ate: 1/	26/2019	S	SeqNo: 1	915806	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.71	0.021	0.8271	0	86.0	63.9	127			
Toluene	0.75	0.041	0.8271	0	90.1	69.9	131			
Ethylbenzene	0.75	0.041	0.8271	0	91.2	71	132			
Xylenes, Total	2.3	0.083	2.481	0	91.9	71.8	131			
Surr: 4-Bromofluorobenzene	0.82		0.8271		99.1	80	120			

Sample ID 1901A29-002AN	ISD SampT	уре: МS	SD .	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: West N. End	Batch	n ID: B5	7279	F	RunNo: 5	7279				
Prep Date:	Analysis D)ate: 1/	26/2019	S	SeqNo: 1	915807	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.70	0.021	0.8271	0	85.0	63.9	127	1.17	20	
Toluene	0.74	0.041	0.8271	0	89.1	69.9	131	1.14	20	
Ethylbenzene	0.75	0.041	0.8271	0	90.1	71	132	1.13	20	
Xylenes, Total	2.3	0.083	2.481	0	91.3	71.8	131	0.589	20	
Surr: 4-Bromofluorobenzene	0.80		0.8271		96.2	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

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	vor Bloomfield n Spill Clean Up								
Sample ID MB-42823	SampType: MBLK	TestCode: EPA Meth	od 8021B: Volatiles						
Client ID: PBS	Batch ID: 42823	RunNo: 57296							
Prep Date: 1/25/2019	Analysis Date: 1/28/2019	SeqNo: 1917177	Units: mg/Kg						
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLin	nit HighLimit %RPD	RPDLimit Qual					
Xylenes, Total	ND 0.10								
Surr: 4-Bromofluorobenzene	0.94 1.0	00 94.4 8	30 120						
Sample ID LCS-42823	SampType: LCS	TestCode: EPA Meth	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 42823	RunNo: 57296							
Prep Date: 1/25/2019	Analysis Date: 1/28/2019	SeqNo: 1917178	Units: mg/Kg						
Analyte	Result PQL SPK va	ue SPK Ref Val %REC LowLin	nit HighLimit %RPD	RPDLimit Qual					
Xylenes, Total	2.9 0.10 3.0	00 0 96.3 8	30 120						
Surr: 4-Bromofluorobenzene	0.93 1.0	00 93.3 8	30 120						

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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HALL ENVIRONMENTAL ANALYSIS LABORATORY		4901 Hawkins NE uerque, NM 87109 4X: 505-345-4107	, San	nple Log-In Ch	eck List
Client Name: ANDEAVOR BLOOMFIEL	Work Order Number: 1	901A29	,	RcptNo:	1
Received By: Desiree Dominguez Completed By: Desiree Dominguez Reviewed By: AB LABELED BY: DAD 1/26/19	1/26/2019 9:45:00 AM 1/26/2019 10:11:11 AM 1 2.6 19		A A		
 <u>Chain of Custody</u> 1. Is Chain of Custody complete? 2. How was the sample delivered? 	Ŷ	∕es ⊻ Courier	No 🗌 .	Not Present	
Log In 3. Was an attempt made to cool the samples?	Y	'es 🗹	No 🗌		
4. Were all samples received at a temperature of5. Sample(s) in proper container(s)?	A	ies 🗌 Approved by clie ies 🗹	No	SAMPles not for DAD 11	-02en. 26/19
6. Sufficient sample volume for indicated test(s)?7. Are samples (except VOA and ONG) properly8. Was preservative added to bottles?	preserved? Ye	es ✔ es ✔ es □	No No No No	NA 🗌	
9. VOA vials have zero headspace?10. Were any sample containers received broken?		es 🗌 'es 🗍	No 🗌 No 🗹	No VOA Vials V # of preserved bottles checked	
 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Cu 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) 	ustody? Yo Yo	es V es V es V es V	No No No	for pH: (<2 or > Adjusted? Checked by: DA DAT	1/2/
<u>Special Handling (if applicable)</u> 15. Was client notified of all discrepancies with th	in order?	′es 🗌	Na 🗔	NG 54	
Person Notified: By Whom: Regarding: Client Instructions: 16. Additional remarks: 17. <u>Cooler Information</u>	Date:	eMail Phon	No L	NA 🗹	

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	-0.2	Good	Yes			

	AL X	!							(N	Y or	Air Bubbles (/												
	HALL ENVIRONMENTAL ANALYSIS LABORATORY																						_	ronort Lonort
	M N N		Albuquerque NM 87109		5				_		JOIND	X	٢	X	X	\times	X	Х						-
i	N N N	.com	MN	505-345-4107	est				((AOV) 80828 /-im92) 0728	1											-	at oc
1	5 J	nenta	erine.	505.2	Request		S'B's	d 28	08 /		8081 Pesticid	<u> </u>								+		_	-	notated
		www.hallenvironmental.com	priorio			_	OS'⁺C) ³ 'Ъ	DN' ^e		,IO, I) anoinA													a clearly
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1	HALL	www.	4901 Hawkins NE	505-345-3975			(3)				EDB (Method									_	-	_	-	cted dat
	I	~	lawkir	5-34					(1.8	141	TPH (Method									+			-	o-contra
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			4								BTEX + MTE				¥							_	Remarks:	sibility
									340		10.00 T	\square		×		7	7		-		-+-			this pos
	X Rush Same Day		Spill Clean-UP				1.1	}	RENO NOF CLASS	9.0 1		- 001	-002	- 003	H00 -	-005	-006	-001					Date Time	Courtier $1/2ie/19-3.4i$
Time:			, Spill (13633009	iger:	Kin Kou		X Ves		Preservative Type	Cold	Cel d	Cold	Col d	Celit	col d	co d	-				a lad	Courier credited laboratories
Turn-Around Time	□ Standard	Project Name:	Hospah	Project #:	1365	Project Manager:	Math	Company	On Ice	Sample Tem	Container Type and #	1- 402 par	1-4-5-100	1-42 1	1-45-24	1-402.00	1-402 tar	1-405 %	`				Received by:	Intracted to other ac
Chain-of-Custody Record	- Logistics	-		VM BT413	632-4169			🗆 LEVEI 4 (FUII VAIIUAIION)	۳ 		Sample Request ID	Northeast	West Nº End	North west	West Bettern N. Ful	East Battom N. Side	Peep well Gra b	Deep well Bottom	-	-			ed by:	I I GIV MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
ain-of-Cı	Andervor	111 CK4990	dress:	Rloowsheld, 1	505-	:#XE	kage: d	no	□ Other	(pe)	Time Matrix	15 4 Soil	56 Soil	56° Soil	E le Sei	_		11:30° So; 1		-			Time: Relinquished by	Search Samples subr
Ch	Client:		Mailing Address:	Rlen	Phone #: 505	email or Fax#:	QA/QC Package: K stondord	Accreditation	🗆 NELAP	🗆 EDD (Type)	Date	1 25 19 10:54 Sol	1-25-19 10:59 501	1.35-19 10:56. 501	1.9219 M. 2016 Sei	1-25-19 11:10a	11 450	1-25-19 11:					Date: Time: $\frac{1}{25/L4}$ 15C Date: Time:	1351910 1900



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

February 05, 2019

Matt Krakow Western Refining Southwest, Inc. #50 CR 4990 Bloomfield, NM 87413 TEL: (505) 632-4135 FAX (505) 632-3911

RE: Hospah Spill Cleanup

OrderNo.: 1902054

Dear Matt Krakow:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/2/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1902054 Date Reported: 2/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. Hospah Spill Cleanup

Client Sample ID: West Floor Center Section Collection Date: 2/1/2019 11:00:00 AM

1902054-001 Lab ID:

Project:

Matrix: MEOH (SOIL) Received Date: 2/2/2019 10:55:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	2/4/2019 12:13:01 PM	42945
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	13	10	mg/Kg	1	2/4/2019 10:28:10 AM	42946
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/4/2019 10:28:10 AM	42946
Surr: DNOP	89.2	50.6-138	%Rec	1	2/4/2019 10:28:10 AM	42946
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/4/2019 9:36:24 AM	42936
Surr: BFB	99.6	73.8-119	%Rec	1	2/4/2019 9:36:24 AM	42936
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	2/4/2019 9:36:24 AM	42936
Toluene	ND	0.046	mg/Kg	1	2/4/2019 9:36:24 AM	42936
Ethylbenzene	ND	0.046	mg/Kg	1	2/4/2019 9:36:24 AM	42936
Xylenes, Total	ND	0.093	mg/Kg	1	2/4/2019 9:36:24 AM	42936
Surr: 4-Bromofluorobenzene	96.0	80-120	%Rec	1	2/4/2019 9:36:24 AM	42936

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report	
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Lab Order 1902054

Date Reported: 2/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. Hospah Spill Cleanup

Client Sample ID: West Wall Center Section Collection Date: 2/1/2019 11:05:00 AM

1902054-002 Lab ID:

Project:

Received Date: 2/2/2019 10:55:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	2/4/2019 12:25:26 PM	42945
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: Irm
Diesel Range Organics (DRO)	70	9.6	mg/Kg	1	2/4/2019 10:50:19 AM	42946
Motor Oil Range Organics (MRO)	170	48	mg/Kg	1	2/4/2019 10:50:19 AM	42946
Surr: DNOP	92.7	50.6-138	%Rec	1	2/4/2019 10:50:19 AM	42946
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.4	mg/kg	1	2/4/2019 10:00:02 AM	42936
Surr: BFB	101	73.8-119	%Rec	1	2/4/2019 10:00:02 AM	42936
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.017	mg/Kg	1	2/4/2019 10:00:02 AM	42936
Toluene	ND	0.034	mg/Kg	1	2/4/2019 10:00:02 AM	42936
Ethylbenzene	ND	0.034	mg/Kg	1	2/4/2019 10:00:02 AM	42936
Xylenes, Total	ND	0.068	mg/Kg	1	2/4/2019 10:00:02 AM	42936
Surr: 4-Bromofluorobenzene	96.8	80-120	%Rec	1	2/4/2019 10:00:02 AM	42936

Matrix: MEOH (SOIL)

Soil From Sample Location Removed

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report Lab Order 1902054 Date Reported: 2/5/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. Hospah Spill Cleanup

Client Sample ID: East Floor Center Section Collection Date: 2/1/2019 11:10:00 AM

1902054-003 Lab ID:

Project:

Matrix: MEOH (SOIL) Received Date: 2/2/2019 10:55:00 AM

Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	2/4/2019 12:37:51 PM	42945
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: Irm
Diesel Range Organics (DRO)	17	9.8	mg/Kg	1	2/4/2019 11:12:23 AM	42946
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/4/2019 11:12:23 AM	42946
Surr: DNOP	96.6	50.6-138	%Rec	1	2/4/2019 11:12:23 AM	42946
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/4/2019 10:23:37 AM	42936
Surr: BFB	105	73.8-119	%Rec	1	2/4/2019 10:23:37 AM	42936
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.025	mg/Kg	1	2/4/2019 10:23:37 AM	42936
Toluene	ND	0.049	mg/Kg	1	2/4/2019 10:23:37 AM	42936
Ethylbenzene	ND	0.049	mg/Kg	1	2/4/2019 10:23:37 AM	42936
Xylenes, Total	ND	0.099	mg/Kg	1	2/4/2019 10:23:37 AM	42936
Surr: 4-Bromofluorobenzene	95.4	80-120	%Rec	1	2/4/2019 10:23:37 AM	42936

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Analytical Report Lab Order 1902054 Date Reported: 2/5/2019

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D 4

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. Hospah Spill Cleanup

Client Sample ID: East Wall Center Section Collection Date: 2/1/2019 11:15:00 AM

1902054-004 Lab ID:

Project:

. . Matrix: MEOH (SOIL) Received Date: 2/2/2019 10:55:00 AM

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DOT

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Analyses	Result	PQL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	2/4/2019 12:50:15 PM	42945
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/4/2019 11:34:31 AM	42946
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/4/2019 11:34:31 AM	42946
Surr: DNOP	96.7	50.6-138	%Rec	1	2/4/2019 11:34:31 AM	42946
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	2/4/2019 10:47:15 AM	42936
Surr: BFB	99.3	73.8-119	%Rec	1	2/4/2019 10:47:15 AM	42936
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.019	mg/Kg	1	2/4/2019 10:47:15 AM	42936
Toluene	ND	0.038	mg/Kg	1	2/4/2019 10:47:15 AM	42936
Ethylbenzene	ND	0.038	mg/Kg	1	2/4/2019 10:47:15 AM	42936
Xylenes, Total	ND	0.076	mg/Kg	1	2/4/2019 10:47:15 AM	42936
Surr: 4-Bromofluorobenzene	95.6	80-120	%Rec	1	2/4/2019 10:47:15 AM	42936

D .

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 9 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Client: Project:		stern Refining South pah Spill Cleanup	nwest, Inc.						
Sample ID	MB-42945	SampType	mblk	TestCoo	e: EPA Method	300.0: Anion	s		
Client ID:	PBS	Batch ID:	42945	RunN	o: 57445				
Prep Date:	2/4/2019	Analysis Date:	2/4/2019	SeqN	D: 1922413	Units: mg/#	(g		
Analyte		Result PO	QL SPK value	SPK Ref Val %F	EC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5						
Sample ID	LCS-42945	SampType	lcs	TestCoo	e: EPA Method	300.0: Anion	s		
Client ID:	LCSS	Batch ID:	42945	RunN	o: 57445				

SeqNo: 1922414

Units: mg/Kg

%RPD Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit 15.00 94.3 Chloride 14 1.5 0 90 110

Analysis Date: 2/4/2019

Qualifiers:

Prep Date: 2/4/2019

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

RPDLimit

Page 5 of 9

Qual

Client: Project:		Refining So pill Cleanu		est, Inc.							
Sample ID	MB-42939	SampT	ype: M I	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	ID: 42	939	F	RunNo: 5	7446				
Prep Date:	2/1/2019	Analysis D	ate: 2	/4/2019	5	SeqNo: 1	921757	Units: %Re	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		9.2		10.00		92.4	50.6	138			
Sample ID	LCS-42939	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 42	939	F	RunNo: 5	7446				
Prep Date:	2/1/2019	Analysis D	ate: 2	/4/2019	S	SeqNo: 1	921758	Units: %Re	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.4		5.000		87.8	50.6	138			
Sample ID	LCS-42946	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	ID: 42	946	F	RunNo: 5	7446				
Prep Date:	2/4/2019	Analysis D	ate: 2	/4/2019	5	SeqNo: 1	921759	Units: mg/	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	53	10	50.00	0	106	63.9	124			
Surr: DNOP		4.4		5.000		87.4	50.6	138			
Sample ID	MB-42946	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Sample ID Client ID:			ype: M I ID: 42			tCode: El RunNo: 5		8015M/D: Di	esel Rang	e Organics	
	PBS		ID: 42	946	F		7446	8015M/D: Di Units: mg/k	-	e Organics	
Client ID:	PBS	Batch	ID: 42	946 /4/2019	F	RunNo: 5 SeqNo: 1	7446		-	e Organics RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (PBS 2/4/2019 Drganics (DRO)	Batch Analysis Da Result ND	ID: 42 ate: 2 PQL 10	946 /4/2019	F	RunNo: 5 SeqNo: 1	7446 921760	Units: mg/ŀ	(g	-	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang	PBS 2/4/2019	Batch Analysis D Result ND ND	ID: 42 ate: 2 PQL	2946 /4/2019 SPK value	F	RunNo: 5 SeqNo: 19 %REC	7446 921760 LowLimit	Units: mg/k HighLimit	(g	-	Qual
Client ID: Prep Date: Analyte Diesel Range (PBS 2/4/2019 Drganics (DRO)	Batch Analysis Da Result ND	ID: 42 ate: 2 PQL 10	946 /4/2019	F	RunNo: 5 SeqNo: 1	7446 921760	Units: mg/ŀ	(g	-	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP	PBS 2/4/2019 Drganics (DRO)	Batch Analysis D Result ND ND	ID: 42 ate: 2 PQL 10 50	2946 /4/2019 SPK value 10.00	F SPK Ref Val	RunNo: 5 SeqNo: 1 %REC 90.5	7446 921760 LowLimit 50.6	Units: mg/k HighLimit	Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP	PBS 2/4/2019 Drganics (DRO) Je Organics (MRO)	Batch Analysis Da Result ND 9.0 SampTr	ID: 42 ate: 2 PQL 10 50	2946 /4/2019 SPK value 10.00	F SPK Ref Val Tes	RunNo: 5 SeqNo: 1 %REC 90.5	7446 921760 LowLimit 50.6 PA Method	Units: mg/k HighLimit 138 8015M/D: Di	Kg %RPD esel Rang	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID	PBS 2/4/2019 Drganics (DRO) Je Organics (MRO) 1902054-004AMS East Wall Center	Batch Analysis Da Result ND 9.0 SampTr	ID: 42 ate: 2, PQL 10 50 ype: M: ID: 42	2946 /4/2019 SPK value 10.00 S 2946	F SPK Ref Val Tes F	RunNo: 5 SeqNo: 1 %REC 90.5 tCode: E	7446 921760 LowLimit 50.6 PA Method 7446	Units: mg/k HighLimit 138	Kg %RPD esel Rang	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte	PBS 2/4/2019 Drganics (DRO) te Organics (MRO) 1902054-004AMS East Wall Center S 2/4/2019	Batch Analysis D Result ND ND 9.0 SampTy Se Batch Analysis D Result	ID: 42 ate: 2, PQL 10 50 ype: M: ID: 42 ate: 2, PQL	2946 /4/2019 SPK value 10.00 S 2946 /4/2019 SPK value	F SPK Ref Val Tes F SPK Ref Val	RunNo: 5 SeqNo: 1 %REC 90.5 tCode: E RunNo: 5 SeqNo: 1 %REC	7446 921760 LowLimit 50.6 PA Method 7446 921765 LowLimit	Units: mg/k HighLimit 138 8015M/D: Di Units: mg/k HighLimit	Kg %RPD esel Rang	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (PBS 2/4/2019 Drganics (DRO) Je Organics (MRO) 1902054-004AMS East Wall Center	Batch Analysis Da Result ND 9.0 SampTy Se Batch Analysis Da Result 44	PQL 10 50 10 50 10 10 10 10 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	2946 /4/2019 SPK value 10.00 S 2946 /4/2019 SPK value 48.69	F SPK Ref Val Tes F S	RunNo: 5 SeqNo: 1 %REC 90.5 tCode: E RunNo: 5 SeqNo: 1 %REC 91.3	7446 921760 LowLimit 50.6 PA Method 7446 921765 LowLimit 53.5	Units: mg/k HighLimit 138 8015M/D: Di Units: mg/k HighLimit 126	Kg %RPD esel Rang	RPDLimit	
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte	PBS 2/4/2019 Drganics (DRO) te Organics (MRO) 1902054-004AMS East Wall Center S 2/4/2019	Batch Analysis D Result ND ND 9.0 SampTy Se Batch Analysis D Result	ID: 42 ate: 2, PQL 10 50 ype: M: ID: 42 ate: 2, PQL	2946 /4/2019 SPK value 10.00 S 2946 /4/2019 SPK value	F SPK Ref Val Tes F SPK Ref Val	RunNo: 5 SeqNo: 1 %REC 90.5 tCode: E RunNo: 5 SeqNo: 1 %REC	7446 921760 LowLimit 50.6 PA Method 7446 921765 LowLimit	Units: mg/k HighLimit 138 8015M/D: Di Units: mg/k HighLimit	Kg %RPD esel Rang	RPDLimit	
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP	PBS 2/4/2019 Drganics (DRO) te Organics (MRO) 1902054-004AMS East Wall Center S 2/4/2019	Batch Analysis D Result ND 9.0 SampT Se Batch Analysis D Result 44 4.5	ID: 42 ate: 2 PQL 10 50 ype: M: ID: 42 ate: 2 PQL 9.7 ype: M:	2946 /4/2019 SPK value 10.00 S 2946 /4/2019 SPK value 48.69 4.869 SD	F SPK Ref Val Tes F SPK Ref Val 0	RunNo: 5 SeqNo: 1 %REC 90.5 tCode: El RunNo: 5 SeqNo: 1 %REC 91.3 92.5	7446 921760 LowLimit 50.6 PA Method 7446 921765 LowLimit 53.5 50.6	Units: mg/k HighLimit 138 8015M/D: Di Units: mg/k HighLimit 126	kg %RPD esel Range kg %RPD	RPDLimit e Organics RPDLimit	
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID:	PBS 2/4/2019 Drganics (DRO) te Organics (MRO) 1902054-004AMS East Wall Center S 2/4/2019 Drganics (DRO)	Batch Analysis D Result ND 9.0 SampT Se Batch Analysis D Result 44 4.5	ID: 42 ate: 2 PQL 10 50 ype: M: ID: 42 ate: 2 PQL 9.7	2946 /4/2019 SPK value 10.00 S 2946 /4/2019 SPK value 48.69 4.869 SD	F SPK Ref Val Tes SPK Ref Val 0 Tes	RunNo: 5 SeqNo: 1 %REC 90.5 tCode: El RunNo: 5 SeqNo: 1 %REC 91.3 92.5	7446 921760 LowLimit 50.6 PA Method 7446 921765 LowLimit 53.5 50.6 PA Method	Units: mg/k HighLimit 138 8015M/D: Di Units: mg/k HighLimit 126 138	kg %RPD esel Range kg %RPD	RPDLimit e Organics RPDLimit	
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID	PBS 2/4/2019 Drganics (DRO) te Organics (MRO) 1902054-004AMS East Wall Center S 2/4/2019 Drganics (DRO)	Batch Analysis D Result ND 9.0 SampT Se Batch Analysis D Result 44 4.5	ID: 42 ate: 2, PQL 10 50 ype: M: ID: 42 ate: 2, PQL 9.7 ype: M: UD: 42	2946 /4/2019 SPK value 10.00 S 2946 /4/2019 SPK value 48.69 4.869 5D 2946	F SPK Ref Val Tes SPK Ref Val 0 Tes F	RunNo: 5 SeqNo: 1 %REC 90.5 tCode: EI RunNo: 5 SeqNo: 1 %REC 91.3 92.5 tCode: EI	7446 921760 LowLimit 50.6 PA Method 7446 921765 LowLimit 53.5 50.6 PA Method 7446	Units: mg/k HighLimit 138 8015M/D: Di Units: mg/k HighLimit 126 138	kg %RPD esel Range kg %RPD esel Range	RPDLimit e Organics RPDLimit	
Client ID: Prep Date: Analyte Diesel Range (Motor Oil Rang Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range (Surr: DNOP Sample ID Client ID: Prep Date: Analyte	PBS 2/4/2019 Drganics (DRO) te Organics (MRO) 1902054-004AMS East Wall Center S 2/4/2019 Drganics (DRO)	Batch Analysis D Result ND ND 9.0 SampTy Se Batch Analysis D Result 44 4.5 D SampTy Se Batch	ID: 42 ate: 2, PQL 10 50 ype: M: ID: 42 ate: 2, PQL 9.7 ype: M: UD: 42	2946 /4/2019 SPK value 10.00 S 2946 /4/2019 SD 2946 /4/2019	F SPK Ref Val Tes SPK Ref Val 0 Tes F	RunNo: 5 SeqNo: 1 %REC 90.5 tCode: EI RunNo: 5 SeqNo: 1 %REC 91.3 92.5 tCode: EI RunNo: 5 SeqNo: 1	7446 921760 LowLimit 50.6 PA Method 7446 921765 LowLimit 53.5 50.6 PA Method 7446	Units: mg/k HighLimit 138 8015M/D: Di Units: mg/k HighLimit 126 138 8015M/D: Di	kg %RPD esel Range kg %RPD esel Range	RPDLimit e Organics RPDLimit	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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WO#: **1902054** *05-Feb-19*

Client: Project:	Western F Hospah S	U		st, Inc.							
Sample ID 1902	2054-004AMSC) SampT	ype: M	SD	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: Eas	t Wall Center S	Se Batch	n ID: 42	946	F	RunNo: 57	7446				
Prep Date: 2/4	/2019	Analysis D	ate: 2	/4/2019	S	eqNo: 19	921766	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.7		4.817		97.8	50.6	138	0	0	

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 7 of 9

	1702
	05-Fel

	n Refining Southwe	est, Inc.							
Sample ID MB-42936 Client ID: PBS Prep Date: 2/1/2019	SampType: M Batch ID: 42 Analysis Date: 2	936	F	tCode: EP RunNo: 57 SeqNo: 19	448	8015D: Gaso Units: mg/K	0	e	
Analyte Gasoline Range Organics (GRO) Surr: BFB	Result PQL ND 5.0 1000	SPK value	SPK Ref Val	%REC 102	LowLimit 73.8	HighLimit 119	%RPD	RPDLimit	Qual
Sample ID LCS-42936 Client ID: LCSS Prep Date: 2/1/2019 Analyte	SampType: L(Batch ID: 42 Analysis Date: 2 Result PQL	936 /4/2019	F	tCode: EP RunNo: 57 SeqNo: 19 %REC	448	8015D: Gaso Units: mg/K HighLimit	0	e RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	27 5.0 1100		O	107 110	80.1 73.8	123 119	70 KF D		Quai

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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0.96

1.000

	n Refining S 1 Spill Clean		st, Inc.							
Sample ID MB-42936	Samp	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	h ID: 42	936	F	RunNo: 5	7448				
Prep Date: 2/1/2019	Analysis [Date: 2/	4/2019	5	SeqNo: 1	922259	Units: mg/ #	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.3	80	120			
Sample ID LCS-42936	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batc	h ID: 42	936	F	RunNo: 5	7448				
Prep Date: 2/1/2019	Analysis [Date: 2/	4/2019	5	SeqNo: 1	922260	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.2	80	120			
Toluene	0.94	0.050	1.000	0	94.1	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.0	80	120			

96.0

80

120

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D

Surr: 4-Bromofluorobenzene

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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ANALY LABOR		AL.	TE:	l Environmenta Ali L: 505-345-397 Vebsite: www.h	4901 Haw buquerque, NN 5 FAX: 505-3-	kins NE 187109 15-4107	Sam	nple Log-In Check List
Client Name:	Western Re	efining South	w Work	Order Numbe	r: 1902054			RcptNo: 1
Received By: Completed By:	Victoria Z			9 10:55:00 AN 9 12:15:14 PN	15-		rtmia: Gell rtmia: Gell	
			712	12.15.14 PM	a	V M	una yr	labeled ber
(chemes by: (-NM		42	// /				VVZ 212119
Chain of Cust	odv							VUL ADTIT U
1. Is Chain of Cus		lete?			Yes 🗹	1	No 🗌	Not Present
2. How was the s	ample deliv	ered?			Courier			
Log In								
3. Was an attemp	t made to c	ool the samp	es?		Yes 🗸	,	No 🗆	NA 🗌
 Were all sample 	es received	at a tempera	ture of >0° C t	o 6.0°C	Yes 🗹	1	No 🗌	NA 🗌
5. Sample(s) in pr	oper contai	ner(s)?			Yes 🗹	1	No 🗆	
5. Sufficient samp	le volume fo	or indicated te	st(s)?		Yes 🔽	P	No 🗆	
7, Are samples (er				d?	Yes 🗹	٢	No 🗆	
3. Was preservativ	ve added to	bottles?			Yes 🗌	r	40 🔽	NA 🗆
. VOA vials have	zero heads	nace?			Yes 🗌		lo 🗆	No VOA Vials
0. Were any same			roken?		Yes		No 🗹 🗆	NO VUA VIAIS M VVZ 2/2/10
o, more any carry			ionem:		Tea			# of preserved bottles checked
1. Does paperwork					Yes 🗸		No 🗌	for pH:
(Note discrepan		New States and	0.000 10000					(<2 or >12 unless noted) Adjusted?
2. Are matrices co 3. Is it clear what a	- S -				Yes 🗹 Yes 🗹		No [_] No [_]	riejusidaj
4. Were all holding		12 02 0 to 12 12 10 1	f		Yes 🗹		40 🗌	Checked by:
(If no, notify cus					Tes (•)			/
pecial Handlir	ng (if app	licable)						
5. Was client noti	fied of all di	screpancies v	with this order?	5	Yes 🗌		No 🗌	NA 🗹
Person N	lotified:			Date [
By Whon	n: j			Via:	eMail] Phone	🗌 Fax	In Person
Regardin	g:							
Client Ins	tructions:							
6. Additional rem	arks:							
7. Cooler Inform	ation							
Cooler No	Temp *C	Condition	Seal Intact	Seal No	Seal Date	Sign	ed By	
1	1.6	Good	Yes				acosandiou	

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	od 504.1) (I-VOA) etals cides / 8082 PCB's cides / 8082 PCB's (I-VOA)	N 8 Aମ୍ପଠମ))न) anoina			×		$\frac{\tau_{\text{Time}}}{\tau_{\text{Time}}} \begin{array}{c c} \text{Remarks:} \\ \hline \ell & \mathcal{P} \mathcal{U} \\ \hline \mathcal{D} \mathcal{U} \mathcal{U} \\ \hline \mathcal{D} \\ \hline \mathcal{F} \\ \hline \mathcal$
	901 Ha el. 505	(ово / рво / мво)	101 8015E	X	44	X	 -	CC: Any sub-
	45 T	TBE + TPH (Gas only) 1BE + TPH (Gas only)		X	AX	X		COWTULA COWTULA possibility. Any
Turn-Around Time:	Project # 12623808	Project Manager: Moth Kra Kow Sampler: Brittney Hall On Ice: 友Yes no Sample Temberature名の-((F)0,4=1,10 ⁰	Container Preservative HEAL No. Type and # Type 003,054	1-902 Jar Cold -0	* 1-402 Tar Cold -003	1-405		Date 2/1/1 Date Date
o 2	Bloomfue 12, N/N 87413 Bloomfue 12, N/N 87413 Phone #: 505-623-4169	email or Fax#: QA/QC Package: X Standard	Time		2-1-19 11:10 Soil Fost Clar Centrady	11:45 Soil		Date: Time: Relinquished by: 2/1/1,9 1,4-1 Relinquished by: Date: Time: Relinquished by: 7/1/1,9 1(b,3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

February 11, 2019

Matt Krakow Western Refining Southwest, Inc. #50 CR 4990 Bloomfield, NM 87413 TEL: (505) 632-4135 FAX (505) 632-3911

RE: Hospah Station Spill Cleanup

OrderNo.: 1902341

Dear Matt Krakow:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/8/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report Lab Order 1902341 Date Reported: 2/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

1902341-001

Hospah Station Spill Cleanup

Project:

Lab ID:

Client Sample ID: West bottom south section Collection Date: 2/7/2019 10:55:00 AM Received Date: 2/8/2019 7:55:00 AM

	Soll							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst:	MRA		
Chloride	ND	60	mg/Kg	20	2/8/2019 12:08:29 PM	43055		
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst:	Irm		
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/8/2019 9:48:17 AM	43052		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/8/2019 9:48:17 AM	43052		
Surr: DNOP	77.5	50.6-138	%Rec	1	2/8/2019 9:48:17 AM	43052		
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB		
Gasoline Range Organics (GRO)	ND	5.1	mg/Kg	1	2/8/2019 9:38:59 AM	43044		
Surr: BFB	102	73.8-119	%Rec	1	2/8/2019 9:38:59 AM	43044		
EPA METHOD 8021B: VOLATILES					Analyst:	NSB		
Benzene	ND	0.025	mg/Kg	1	2/8/2019 9:38:59 AM	43044		
Toluene	ND	0.051	mg/Kg	1	2/8/2019 9:38:59 AM	43044		
Ethylbenzene	ND	0.051	mg/Kg	1	2/8/2019 9:38:59 AM	43044		
Xylenes, Total	ND	0.10	mg/Kg	1	2/8/2019 9:38:59 AM	43044		
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	2/8/2019 9:38:59 AM	43044		

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report Lab Order 1902341 Date Reported: 2/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

1902341-002

Hospah Station Spill Cleanup

Project:

Lab ID:

Client Sample ID: East bottom south section Collection Date: 2/7/2019 11:03:00 AM Received Date: 2/8/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	2/8/2019 12:20:53 PM	43055
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS					Analyst	: Irm
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/8/2019 10:10:31 AM	43052
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/8/2019 10:10:31 AM	43052
Surr: DNOP	89.2	50.6-138		%Rec	1	2/8/2019 10:10:31 AM	43052
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/8/2019 10:02:42 AM	43044
Surr: BFB	105	73.8-119		%Rec	1	2/8/2019 10:02:42 AM	43044
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.020		mg/Kg	1	2/8/2019 10:02:42 AM	43044
Toluene	ND	0.040		mg/Kg	1	2/8/2019 10:02:42 AM	43044
Ethylbenzene	ND	0.040		mg/Kg	1	2/8/2019 10:02:42 AM	43044
Xylenes, Total	ND	0.080		mg/Kg	1	2/8/2019 10:02:42 AM	43044
Surr: 4-Bromofluorobenzene	104	80-120		%Rec	1	2/8/2019 10:02:42 AM	43044

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1902341

Date Reported: 2/11/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. Client Sample ID: North of electrical panel E sectio **Project:** Hospah Station Spill Cleanup Collection Date: 2/7/2019 11:15:00 AM Lab ID: 1902341-003 Matrix: SOIL Received Date: 2/8/2019 7:55:00 AM Result **RL** Qual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA 2/8/2019 12:33:17 PM 43055 Chloride ND 60 mg/Kg 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: Irm Diesel Range Organics (DRO) 30 9.8 mg/Kg 2/8/2019 10:32:39 AM 43052 1 Motor Oil Range Organics (MRO) 55 49 mg/Kg 1 2/8/2019 10:32:39 AM 43052 Surr: DNOP 104 50.6-138 %Rec 2/8/2019 10:32:39 AM 43052 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND mg/Kg 2/8/2019 10:25:59 AM 43044 4.3 1 Surr: BFB 99.1 %Rec 2/8/2019 10:25:59 AM 43044 73.8-119 1 Analyst: NSB **EPA METHOD 8021B: VOLATILES** ND 0.021 mg/Kg 2/8/2019 10:25:59 AM 43044 Benzene 1 Toluene ND 0.043 mg/Kg 2/8/2019 10:25:59 AM 43044 1 0.043 Ethylbenzene ND mg/Kg 2/8/2019 10:25:59 AM 43044 1 ND 0.086 Xvlenes. Total mg/Kg 2/8/2019 10:25:59 AM 43044 1 80-120 Surr: 4-Bromofluorobenzene 98.3 %Rec 1 2/8/2019 10:25:59 AM 43044

Soil From Sample Location Removed

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

1902341-004

Hospah Station Spill Cleanup

Project:

Lab ID:

Client Sample ID: East of fence center section Collection Date: 2/7/2019 10:16:00 AM Received Date: 2/8/2019 7:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	2/8/2019 12:45:42 PM	43055
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	Irm
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/8/2019 10:54:44 AM	43052
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/8/2019 10:54:44 AM	43052
Surr: DNOP	97.4	50.6-138	%Rec	1	2/8/2019 10:54:44 AM	43052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.4	mg/Kg	1	2/8/2019 10:49:15 AM	43044
Surr: BFB	93.4	73.8-119	%Rec	1	2/8/2019 10:49:15 AM	43044
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.022	mg/Kg	1	2/8/2019 10:49:15 AM	43044
Toluene	ND	0.044	mg/Kg	1	2/8/2019 10:49:15 AM	43044
Ethylbenzene	ND	0.044	mg/Kg	1	2/8/2019 10:49:15 AM	43044
Xylenes, Total	ND	0.088	mg/Kg	1	2/8/2019 10:49:15 AM	43044
Surr: 4-Bromofluorobenzene	92.7	80-120	%Rec	1	2/8/2019 10:49:15 AM	43044

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

1902341-005

Hospah Station Spill Cleanup

Project:

Lab ID:

Client Sample ID: East of fence north section Collection Date: 2/7/2019 10:07:00 AM Received Date: 2/8/2019 7:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	2/8/2019 12:58:06 PM	43055
EPA METHOD 8015M/D: DIESEL RANGE OF	GANICS				Analyst	: Irm
Diesel Range Organics (DRO)	40	9.8	mg/Kg	1	2/8/2019 11:16:50 AM	43052
Motor Oil Range Organics (MRO)	110	49	mg/Kg	1	2/8/2019 11:16:50 AM	43052
Surr: DNOP	95.2	50.6-138	%Rec	1	2/8/2019 11:16:50 AM	43052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.5	mg/Kg	1	2/8/2019 11:12:32 AM	43044
Surr: BFB	94.1	73.8-119	%Rec	1	2/8/2019 11:12:32 AM	43044
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.023	mg/Kg	1	2/8/2019 11:12:32 AM	43044
Toluene	ND	0.045	mg/Kg	1	2/8/2019 11:12:32 AM	43044
Ethylbenzene	ND	0.045	mg/Kg	1	2/8/2019 11:12:32 AM	43044
Xylenes, Total	ND	0.090	mg/Kg	1	2/8/2019 11:12:32 AM	43044
Surr: 4-Bromofluorobenzene	93.3	80-120	%Rec	1	2/8/2019 11:12:32 AM	43044

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

1902341-006

Hospah Station Spill Cleanup

Project:

Lab ID:

Client Sample ID: E of Fence S of Deep well Collection Date: 2/7/2019 10:25:00 AM Received Date: 2/8/2019 7:55:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	MRA
Chloride	ND	60	mg/Kg	20	2/8/2019 1:10:31 PM	43055
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst	: Irm
Diesel Range Organics (DRO)	140	9.6	mg/Kg	1	2/8/2019 12:33:21 PM	43052
Motor Oil Range Organics (MRO)	380	48	mg/Kg	1	2/8/2019 12:33:21 PM	43052
Surr: DNOP	94.8	50.6-138	%Rec	1	2/8/2019 12:33:21 PM	43052
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.2	mg/Kg	1	2/8/2019 11:35:47 AM	43044
Surr: BFB	98.1	73.8-119	%Rec	1	2/8/2019 11:35:47 AM	43044
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.026	mg/Kg	1	2/8/2019 11:35:47 AM	43044
Toluene	ND	0.052	mg/Kg	1	2/8/2019 11:35:47 AM	43044
Ethylbenzene	ND	0.052	mg/Kg	1	2/8/2019 11:35:47 AM	43044
Xylenes, Total	ND	0.10	mg/Kg	1	2/8/2019 11:35:47 AM	43044
Surr: 4-Bromofluorobenzene	93.0	80-120	%Rec	1	2/8/2019 11:35:47 AM	43044

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 13 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified W

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

1902341-007

Hospah Station Spill Cleanup

Project:

Lab ID:

Client Sample ID: West wall center section Collection Date: 2/7/2019 10:33:00 AM Received Date: 2/8/2019 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	60		mg/Kg	20	2/8/2019 1:22:55 PM	43055
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst	: Irm
Diesel Range Organics (DRO)	75	9.7		mg/Kg	1	2/8/2019 10:56:08 AM	43052
Motor Oil Range Organics (MRO)	100	48		mg/Kg	1	2/8/2019 10:56:08 AM	43052
Surr: DNOP	99.9	50.6-138		%Rec	1	2/8/2019 10:56:08 AM	43052
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	2/8/2019 11:59:05 AM	43044
Surr: BFB	104	73.8-119		%Rec	1	2/8/2019 11:59:05 AM	43044
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.020		mg/Kg	1	2/8/2019 11:59:05 AM	43044
Toluene	ND	0.040		mg/Kg	1	2/8/2019 11:59:05 AM	43044
Ethylbenzene	ND	0.040		mg/Kg	1	2/8/2019 11:59:05 AM	43044
Xylenes, Total	ND	0.080		mg/Kg	1	2/8/2019 11:59:05 AM	43044
Surr: 4-Bromofluorobenzene	94.9	80-120		%Rec	1	2/8/2019 11:59:05 AM	43044

Matrix: SOIL

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order 1902341

Date Reported: 2/11/2019

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 8015D: GASOLINE RANGE

CLIENT: Western Refining Southwest, Inc. Client Sample ID: North of electrical panel W ecti **Project:** Hospah Station Spill Cleanup Collection Date: 2/7/2019 11:29:00 AM Lab ID: 1902341-008 Matrix: SOIL Received Date: 2/8/2019 7:55:00 AM Result **RL** Qual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA 2/8/2019 1:35:19 PM Chloride ND 60 mg/Kg 20 43055 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: Irm Diesel Range Organics (DRO) 270 9.8 mg/Kg 2/8/2019 11:44:46 AM 43052 1 Motor Oil Range Organics (MRO) 500 49 mg/Kg 1 2/8/2019 11:44:46 AM 43052 Surr: DNOP 97.2 50.6-138 %Rec 2/8/2019 11:44:46 AM 43052

Analyst: NSB

2/8/2019 12:22:23 PM Gasoline Range Organics (GRO) ND mg/Kg 43044 4.7 1 Surr: BFB 93.9 %Rec 2/8/2019 12:22:23 PM 43044 73.8-119 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 0.024 mg/Kg 2/8/2019 12:22:23 PM 43044 Benzene 1 Toluene ND 0.047 mg/Kg 2/8/2019 12:22:23 PM 43044 1 0.047 2/8/2019 12:22:23 PM Ethylbenzene ND mg/Kg 43044 1 ND 0.095 Xvlenes. Total mg/Kg 2/8/2019 12:22:23 PM 43044 1 80/120 Surr: 4-Bromofluorobenzene 92.5 %Rec 1 2/8/2019 12:22:23 PM 43044

Soil From Sample Location Removed

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 13
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

WO#:	1902341
	11-Feb-19

Client: Project:		ttern Refining Son pah Station Spill									
Sample ID	MB-43055	SampTy	be: m t	olk	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	PBS	Batch I	D: 43	055	F	RunNo: 5	7577				
Prep Date:	2/8/2019	Analysis Da	te: 2/	8/2019	5	eqNo: 1	927506	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-43055	SampTy	be: Ics	5	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch I	D: 43	055	F	RunNo: 5	7577				
Prep Date:	2/8/2019	Analysis Dat	te: 2/	8/2019	S	eqNo: 1	927507	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	94.5	90	110			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 9 of 13

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		Refining So tation Spil									
Sample ID	LCS-43052	SampT	ype: LC	s	Test	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch	ID: 43	052	R	unNo: 5	7563				
Prep Date:	2/8/2019	Analysis Da	ate: 2/	8/2019	S	eqNo: 1	925478	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	42	10	50.00	0	83.6	63.9	124			
Surr: DNOP		4.3		5.000		86.4	50.6	138			
	ID MB-43052 SampType: MBLK						8015M/D: Die	esel Range	e Organics		
Client ID:	PBS	Batch	ID: 43	052	R	unNo: 5	7563				
Prep Date:	2/8/2019	Analysis Da	ate: 2/	8/2019	S	eqNo: 1	925481	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Motor Oil Rang	je Organics (MRO)	ND	50								
Surr: DNOP		9.2		10.00		91.8	50.6	138			
Sample ID	1902341-008AMS	SampT	ype: M נ	3	Test	Code: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID:	North of electrical	p Batch	ID: 43	052	R	unNo: 5	7563				
Prep Date:	2/8/2019	Analysis Da	ate: 2/	8/2019	S	eqNo: 1	927458	Units: mg/K	g		

Prep Date: 2/8/2019 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual **Diesel Range Organics (DRO)** 410 9.9 49.31 267.5 286 53.5 126 S Surr: DNOP 4.6 4.931 93.6 50.6 138

Sample ID 1902341-008AM	I SD SampT	уре: М	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: North of electric	cal p Batch	n ID: 43	052	F	RunNo: 5	7563				
Prep Date: 2/8/2019	Analysis D	0ate: 2/	8/2019	8	SeqNo: 1	927459	Units: mg/ #	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	330	9.7	48.26	267.5	127	53.5	126	21.5	21.7	S
Surr: DNOP	4.8		4.826		99.3	50.6	138	0	0	
Sample ID MB-43035	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch	D . 10	025	6		7562				

Client ID: PBS	Batch ID: 43035	Runino: 57563		
Prep Date: 2/7/2019	Analysis Date: 2/8/2019	SeqNo: 1927460	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual	
Surr: DNOP	9.7 10.00	97.3 50.6	138	
Sample ID LCS-43035	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: LCSS	Batch ID: 43035	RunNo: 57563		
Prep Date: 2/7/2019	Analysis Date: 2/8/2019	SeqNo: 1927461	Units: %Rec	

SPK value SPK Ref Val %REC LowLimit

Qualifiers:

Analyte

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η

Result

PQL

ND Not Detected at the Reporting Limit

POL Practical Quanitative Limit

- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH Not In Range

- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

HighLimit

%RPD

RPDLimit

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Qual

WO#:	1902341
	11-Feb-19

Client: Project:		Refining So Station Spill									
Sample ID	LCS-43035	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	LCSS	Batch I	D: 43	035	F	RunNo: 5	7563				
Prep Date:	2/7/2019	Analysis Da	te: 2	/8/2019	5	SeqNo: 1	927461	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.2		5.000		105	50.6	138			
Sample ID	LCS-43047	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	LCSS	Batch I	D: 43	047	F	RunNo: 5	7562				
Prep Date:	2/7/2019	Analysis Da	te: 2	/8/2019	5	SeqNo: 1	928020	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		3.9		5.000		78.5	50.6	138			
Sample ID	MB-43047	SampTy	pe: M I	BLK	Tes	tCode: El	PA Method	8015M/D: Die	sel Rang	e Organics	
Client ID:	PBS	Batch	D: 43	047	F	RunNo: 5	7562				
Prep Date:	2/7/2019	Analysis Da	te: 2	/8/2019	5	SeqNo: 1	928021	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.8		10.00		87.7	50.6	138			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified
- Page 11 of 13

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		n Refining So Station Spill									
Sample ID	MB-43027	SampTy	pe: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 43	027	F	RunNo: 5	7574				
Prep Date:	2/7/2019	Analysis Da	ite: 2/	8/2019	S	SeqNo: 1	926970	Units: %Re	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1000		1000		104	73.8	119			
Sample ID	LCS-43027	SampTy	pe: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: 43	027	F	RunNo: 5	7574				
Prep Date:	2/7/2019	Analysis Da	ite: 2/	8/2019	S	SeqNo: 1	926971	Units: %Re	c		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1100		1000		113	73.8	119			
Sample ID	MD 42044	SampTy			Too			8015D: Gaso	line Dene	•	
	IVID-43044	Sampiy	pe. Wit	SLK	165		PA Method	oursp. Gase	nne kang	e	
Client ID:	MB-43044 PBS		ID: 43			RunNo: 5		ourse. Gase	nne Rang	e	
Client ID: Prep Date:	PBS		ID: 43	044	F		7574	Units: mg/k	Ū	e	
	PBS	Batch	ID: 43	044 8/2019	F	RunNo: 5 SeqNo: 1	7574		Ū	RPDLimit	Qual
Prep Date: Analyte	PBS	Batch Analysis Da	ID: 43 Ite: 2 /	044 8/2019	F	RunNo: 5 SeqNo: 1	7574 926993	Units: mg/k	(g		Qual
Prep Date: Analyte Gasoline Rang Surr: BFB	PBS 2/7/2019	Batch Analysis Da Result ND	ID: 43 ite: 2/ PQL 5.0	044 8/2019 SPK value 1000	F SPK Ref Val	RunNo: 5 SeqNo: 1 %REC 94.8	7574 926993 LowLimit 73.8	Units: mg/⊮ HighLimit	رو RPD	RPDLimit	Qual
Prep Date: Analyte Gasoline Rang Surr: BFB	PBS 2/7/2019 e Organics (GRO)	Batch Analysis Da Result ND 950 SampTy	ID: 43 ite: 2/ PQL 5.0	044 8/2019 SPK value 1000	F S SPK Ref Val Tes	RunNo: 5 SeqNo: 1 %REC 94.8	7574 926993 LowLimit 73.8 PA Method	Units: mg/K HighLimit 119	رو RPD	RPDLimit	Qual
Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID	PBS 2/7/2019 e Organics (GRO) LCS-43044 LCSS	Batch Analysis Da Result ND 950 SampTy	ID: 43 Ite: 2 / PQL 5.0 ID: 43	044 8/2019 SPK value 1000 SS 044	F SPK Ref Val Tes F	RunNo: 5 SeqNo: 1 %REC 94.8 tCode: E	7574 926993 LowLimit 73.8 PA Method 7574	Units: mg/K HighLimit 119	Kg %RPD Dine Rang	RPDLimit	Qual
Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	PBS 2/7/2019 e Organics (GRO) LCS-43044 LCSS	Batch Analysis Da Result ND 950 SampTy Batch	ID: 43 Ite: 2 / PQL 5.0 ID: 43	044 8/2019 SPK value 1000 SS 044 8/2019	F SPK Ref Val Tes F	RunNo: 5 SeqNo: 1 %REC 94.8 tCode: E RunNo: 5	7574 926993 LowLimit 73.8 PA Method 7574	Units: mg/k HighLimit 119 8015D: Gasc	Kg %RPD Dine Rang	RPDLimit	Qual
Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte	PBS 2/7/2019 e Organics (GRO) LCS-43044 LCSS	Batch Analysis Da Result ND 950 SampTy Batch Analysis Da	ID: 43 Ite: 2/ PQL 5.0 Pe: LC ID: 43 Ite: 2/	044 8/2019 SPK value 1000 SS 044 8/2019	F SPK Ref Val Tes F S	RunNo: 5 SeqNo: 1 %REC 94.8 tCode: E RunNo: 5 SeqNo: 1	7574 926993 LowLimit 73.8 PA Method 7574 926994	Units: mg/k HighLimit 119 8015D: Gasc Units: mg/k	Kg %RPD Dine Rang	RPDLimit e	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:		rn Refining So h Station Spill									
Sample ID	MB-43027	SampTy	/pe: M	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	PBS	Batch	ID: 43	027	F	RunNo: 5	7574				
Prep Date:	2/7/2019	Analysis Da	ate: 2/	/8/2019	S	SeqNo: 1	927003	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.0		1.000		102	80	120			
Sample ID	LCS-43027	SampTy	/pe: LC	s	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	ID: 43	027	F	RunNo: 5	57574				
Prep Date:	2/7/2019	Analysis Da	ate: 2/	/8/2019	S	SeqNo: 1	927004	Units: %Red	•		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	1.0		1.000		104	80	120			
Comula ID	ID MB-43044 SampType: MBLK TestCode: EPA Method 8021B: Volatiles										
Sample ID	MB-43044	SampTy	/pe: M	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID:	MB-43044 PBS		/pe: MI ID: 43			tCode: E RunNo: 5		8021B: Volat	iles		
	PBS		ID: 43	044	F		57574	8021B: Volat			
Client ID:	PBS	Batch	ID: 43	044 /8/2019	F	RunNo: 5 SeqNo: 1	57574			RPDLimit	Qual
Client ID: Prep Date:	PBS	Batch Analysis Da Result ND	ID: 43 ate: 2 / PQL 0.025	044 /8/2019	F S	RunNo: 5 SeqNo: 1	927022	Units: mg/K	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene	PBS	Batch Analysis Da Result ND ND	ID: 43 ate: 2/ PQL 0.025 0.050	044 /8/2019	F S	RunNo: 5 SeqNo: 1	927022	Units: mg/K	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	PBS 2/7/2019	Batch Analysis Da Result ND ND ND	ID: 43 ate: 2 / PQL 0.025 0.050 0.050	044 /8/2019	F S	RunNo: 5 SeqNo: 1	927022	Units: mg/K	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	PBS 2/7/2019	Batch Analysis Da Result ND ND ND ND	ID: 43 ate: 2/ PQL 0.025 0.050	044 /8/2019 SPK value	F S	RunNo: 5 SeqNo: 1 %REC	67574 927022 LowLimit	Units: mg/K HighLimit	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	PBS 2/7/2019	Batch Analysis Da Result ND ND ND	ID: 43 ate: 2 / PQL 0.025 0.050 0.050	044 /8/2019	F S	RunNo: 5 SeqNo: 1	927022	Units: mg/K	g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	PBS 2/7/2019	Batch Analysis Da Result ND ND ND ND	ID: 43 ate: 2 / PQL 0.025 0.050 0.050 0.10	044 /8/2019 SPK value 1.000	F SPK Ref Val	RunNo: 5 SeqNo: 1 %REC 92.9	67574 927022 LowLimit 80	Units: mg/K HighLimit	9 %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	PBS 2/7/2019 nofluorobenzene LCS-43044	Batch Analysis Da Result ND ND ND ND 0.93 SampTy	ID: 43 ate: 2 / PQL 0.025 0.050 0.050 0.10	044 /8/2019 SPK value 1.000	F SPK Ref Val	RunNo: 5 SeqNo: 1 %REC 92.9	87574 927022 LowLimit 80	Units: mg/K HighLimit 120	9 %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID:	PBS 2/7/2019 nofluorobenzene LCS-43044	Batch Analysis Da Result ND ND ND ND 0.93 SampTy	ID: 43 ate: 2 / PQL 0.025 0.050 0.050 0.10 Vpe: LC ID: 43	044 /8/2019 SPK value 1.000 CS 044	F SPK Ref Val Tes F	RunNo: 5 SeqNo: 1 %REC 92.9 tCode: E	80 PA Method 87574	Units: mg/K HighLimit 120	g %RPD iles	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID:	PBS 2/7/2019 hofluorobenzene LCS-43044 LCSS	Batch Analysis Da Result ND ND ND 0.93 SampTy Batch	ID: 43 ate: 2 / PQL 0.025 0.050 0.050 0.10 Vpe: LC ID: 43	044 /8/2019 SPK value 1.000 CS 044 /8/2019	F SPK Ref Val Tes F	RunNo: 5 SeqNo: 1 %REC 92.9 tCode: E RunNo: 5	80 PA Method 87574	Units: mg/K HighLimit 120 8021B: Volat	g %RPD iles	RPDLimit	Qual

0

0

0

92.9

93.3

94.7

94.4

80

80

80

80

120

120

120

120

Page 13 of 13

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level. *
- Sample Diluted Due to Matrix D
- Н Holding times for preparation or analysis exceeded

0.93

0.93

2.8

0.94

0.050

0.050

0.10

1.000

1.000

3.000

1.000

- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit PQL
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- Reporting Detection Limit RL
- W Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental . Albu TEL: 505-345-3975 Website: www.hal	4901 H querque, FAX: 505	awkins NE NM 87109 -345-4107	San	nple Log-In Check List
Client Name: Western Refining Southw W	/ork Order Number:	190234	1	-	RcptNo: 1
Received By: Anne Thorne 2/8/	2019 7:55:00 AM		a.	n Ar	~
	2019 8:02:13 AM ちしての 1 9		<i>A</i> n	re Ar re Ar	~
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🔽] N	•	Not Present 🗋
2. How was the sample delivered?		<u>Courier</u>			
Log In 3. Was an attempt made to cool the samples?		Yes 🗹	N	•	na 🗔
 Were all samples received at a temperature of >0 	° C to 6.0°C	Yes 🔽	N	b	
5. Sample(s) in proper container(s)?		Yes 🗹	N	b 🗌	
5. Sufficient sample volume for indicated test(s)?		Yes 🔽	No		
Are samples (except VOA and ONG) properly pres	erved?	Yes 🗹	No		
. Was preservative added to bottles?		Yes 🗌	No		NA 🗆
9. VOA vials have zero headspace?		Yes 🗹	No		No VOA Vials
0. Were any sample containers received broken?	<u> </u>	Yes 🗆	No	o 🗹 [# of preserved
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🔽	Na		bottles checked for pH: (<2 or >12 unless noted)
2. Are matrices correctly identified on Chain of Custo	dy?	Yes 🔽	No		Adjusted?
3. Is it clear what analyses were requested?		Yes 🗹	Na		
 Were all holding times able to be met? (If no, notify customer for authorization.) 		Yes 🗹	No		Checked by:
pecial Handling (if applicable)					
5. Was client notified of all discrepancies with this or	der?	Yes 🗌	No	b	NA 🗹
Person Notified: By Whom:	Date Date] eMail	Phone] Fax	In Person
Regarding:					
Client Instructions:				·····	······
6. Additional remarks:					
7. <u>Cooler Information</u> <u>Cooler No</u> <u>Temp ^oC Condition</u> Seal Inter- <u>1</u> 1.0 Good Yes	ict Seal No Se	al Date	Signed	Ву	
			<u>.</u>		

		- 12 - 12	-	Chain of Custody	ustoay				· F	- dgc	5 	[
Client: Western Retining Southwest, Inc	ining Sol	uthwest,		Report Attention			Lab (Lab Use Only	۲ د د	2-	ogram	
Project: Hospah Station Spill Cleanup Project Manager: F.Arag	<u>I Cleanup</u> F.Aragon	no	<u>- 1 Ш</u>	Keport due by: Email: Mathew -J. Evatorie and covar - com		Lab WO# D	₩	Job Number	10 30 RCRA		CWA SDWA	≤
Address:	50			Address: Roger. Tshåme and eaver. com				Analysis and Method		<u>ط</u>	State	
<u>City, State, Zip</u>				Ĕ						MN	NM CO UT	ΡZ
Phone:				Phone:		ORO		· .	_			
Email: Gcraptree Admin Bhail Faragon	min Bha	all Farago	<u>) </u>			/OA	sə			х		
Date Sampled	Matrix	No Containers	Sample ID	1902341	Lab Number	8057 DKO\C	Chlorid				Remarks	
10:55	S	2	West t	West bottom south section	dol	x x	×				2-4oz jars cool	
11:03 2/7/2019	s	2	East b	East bottom south section	-202-	×	×				2-4oz jars cool	
11:15 2/7/2019	s	2	North of electrical	ectrical panel E. section	Site of the	××	×				2-4oz jars cool	
10:16 2/7/2019	s	2	East of	East of fence center section	1	×	×				2-4oz jars cool	
10:07 2/7/2019	s	2	East of	East of fence north section	S.K	×	×				2-4oz jars cool	
10:25 2/7/2019	s	5	E. of F	E. of Fence S. of Deep well	and the second	××	×				2-4o2 jars cool	
10:33 2/7/2019	s	7	West	West wall center section	402	××	×				2-4oz jars cool	
11:29 2/7/2019	S	2	North of el	North of electrical panel W. section	108	××	×				2-4oz jars cool	
- 												
Additional Instructions:	suc:											
eld sampler), attest to the val idered fraud and may be grou	lidity and aut unds for lega	thenticity of tl al action. Sam	his sample - Jam aware that t pled by: Dr. H.O. W.	l, (field sampler), attest to the validity and authenticity of this sample Jam aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Dorthower Howle	ample location, dati	e or time	of collection is	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.	servation must be receív g temp above 0 but less	ed on ice the day than 6 °C on subs	r they are sampled sequent days.	5
Relinquished by: (Signature)	re)	Date	Ime ILZ	Regeived by: (Signature)	Date 217117	Time	ne Le 2	Received on ice:	Lab Use Only Y / N	Λ <mark>ι</mark> ι		
Relinquished by: (Signature)	(e)	Date	11.9, Time	Received by: (Signatule)	Date 02/63/19	Time	Time 0755	<u>T1</u> AVG Temp [°] C <u>/</u>	- - 			
Semple matrix: 5 - Soli, Sd - Solid, Sg - Sludge, A - Aqueous, U - Urner Note: Samples are discarded 30 days after results are reported unless samples is applicable only to those samples received by the laborator	olla, 2g - 5 30 days afi those samp	iuage, A - A ter results a ples received	queous, U - Other re reported unless other ; d by the laboratory with t	Semples is a point, set - sourd, set - stored, u - denue, u - denue	Jubes will be return limited to the am	I YPE: E ed to clik ount pai	- Blass, p ent or dispos d for on the	container Type: g - glass, p - poly/plastic, ag - amoer glass, v - VOA will be returned to client or disposed of at the client expense. The report for the ar ted to the amount paid for on the report.	moer glass, V - se. The report for	VUA the analysis	of the above	
3envirotec	irc	ste	ch	5796 US fligbwyy 64, Farmington, NM 87401	102/2 4		8	Pi (505) 632-8615 Pr (505) 632-1865			envirolects inc.com	11.2
Anc	siyticc	Analytical Laboratory	iratory	Three Springs · 65 Mercado Street, Sufte 115, Duzargo, (D 81301	the 115, Durango, CD 811	10	£	Ph (970) 259-0615 fr (800) 362-1879	6	(abo	laboratorysenvisatech-inc.rom	1.715

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. Client Sample ID: W Wall South Section **Project:** Hospah Clean Up Collection Date: 3/19/2019 9:40:00 AM Lab ID: 1903896-001 Matrix: SOIL Received Date: 3/20/2019 8:00:00 AM Result **RL** Qual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 3/20/2019 11:00:00 AM 43786 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: Irm Diesel Range Organics (DRO) ND mg/Kg 3/20/2019 10:46:06 AM 43785 10 1 ND Motor Oil Range Organics (MRO) 50 mg/Kg 1 3/20/2019 10:46:06 AM 43785 Surr: DNOP 87.5 70-130 %Rec 1 3/20/2019 10:46:06 AM 43785 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3.4 mg/Kg 1 3/20/2019 8:42:47 AM R58498 Surr: BFB 108 %Rec 3/20/2019 8:42:47 AM R58498 73.8-119 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 3/20/2019 8:42:47 AM R58498 Benzene ND 0.017 mg/Kg 1 Toluene ND 0.034 R58498 mg/Kg 3/20/2019 8:42:47 AM 1 Ethylbenzene ND 0.034 mg/Kg 3/20/2019 8:42:47 AM R58498 1 Xylenes, Total ND 0.068 mg/Kg 1 3/20/2019 8:42:47 AM R58498 Surr: 4-Bromofluorobenzene 108 80-120 %Rec 1 3/20/2019 8:42:47 AM R58498

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method E	Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 1 of 0
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	I uge I of o
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	as specified at

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. Client Sample ID: S Wall West Section **Project:** Hospah Clean Up Collection Date: 3/19/2019 9:42:00 AM Lab ID: 1903896-002 Matrix: SOIL Received Date: 3/20/2019 8:00:00 AM Result **RL** Qual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 3/20/2019 11:00:00 AM 43786 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: Irm Diesel Range Organics (DRO) 610 100 mg/Kg 3/20/2019 11:10:10 AM 43785 10 1200 Motor Oil Range Organics (MRO) 500 mg/Kg 10 3/20/2019 11:10:10 AM 43785 Surr: DNOP 0 70-130 S %Rec 10 3/20/2019 11:10:10 AM 43785 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) 4.2 4.1 mg/Kg 1 3/20/2019 9:06:22 AM R58498 Surr: BFB %Rec 3/20/2019 9:06:22 AM R58498 144 73.8-119 S 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 3/20/2019 9:06:22 AM R58498 Benzene ND 0.021 mg/Kg 1 Toluene ND 3/20/2019 9:06:22 AM R58498 0.041 mg/Kg 1 Ethylbenzene ND 0.041 mg/Kg 3/20/2019 9:06:22 AM R58498 1 Xylenes, Total ND 0.083 mg/Kg 1 3/20/2019 9:06:22 AM R58498 Surr: 4-Bromofluorobenzene 104 80-120 %Rec 1 3/20/2019 9:06:22 AM R58498

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method E	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 2 of 0
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 uge 2 01 0
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	as specified at

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. Client Sample ID: S Wall East Section **Project:** Hospah Clean Up Collection Date: 3/19/2019 9:45:00 AM Lab ID: 1903896-003 Matrix: SOIL Received Date: 3/20/2019 8:00:00 AM Result **RL** Qual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 3/20/2019 11:00:00 AM 43786 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: Irm Diesel Range Organics (DRO) 230 97 mg/Kg 3/20/2019 11:34:25 AM 43785 10 680 Motor Oil Range Organics (MRO) 480 mg/Kg 10 3/20/2019 11:34:25 AM 43785 Surr: DNOP 0 70-130 S %Rec 10 3/20/2019 11:34:25 AM 43785 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5.3 mg/Kg 1 3/20/2019 9:29:52 AM R58498 Surr: BFB 95.9 %Rec 3/20/2019 9:29:52 AM R58498 73.8-119 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 3/20/2019 9:29:52 AM R58498 Benzene ND 0.026 mg/Kg 1 Toluene ND 0.053 R58498 mg/Kg 3/20/2019 9:29:52 AM 1 Ethylbenzene ND 0.053 mg/Kg 3/20/2019 9:29:52 AM R58498 1 Xylenes, Total ND 0.11 mg/Kg 1 3/20/2019 9:29:52 AM R58498 Surr: 4-Bromofluorobenzene 103 80-120 %Rec 1 3/20/2019 9:29:52 AM R58498

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method E	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 3 of 0
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 uge 5 01 0
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	as specified at

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. Client Sample ID: E Wall South Section **Project:** Hospah Clean Up Collection Date: 3/19/2019 9:47:00 AM Lab ID: 1903896-004 Matrix: SOIL Received Date: 3/20/2019 8:00:00 AM Result **RL** Qual Units **DF** Date Analyzed Batch Analyses **EPA METHOD 300.0: ANIONS** Analyst: MRA Chloride ND 30 mg/Kg 3/20/2019 11:00:00 AM 43786 20 EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst: Irm Diesel Range Organics (DRO) 83 9.7 mg/Kg 3/20/2019 11:58:33 AM 43785 1 Motor Oil Range Organics (MRO) 140 49 mg/Kg 1 3/20/2019 11:58:33 AM 43785 Surr: DNOP 99.9 70-130 %Rec 1 3/20/2019 11:58:33 AM 43785 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3.8 mg/Kg 1 3/20/2019 9:53:16 AM R58498 Surr: BFB 103 %Rec 3/20/2019 9:53:16 AM R58498 73.8-119 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 3/20/2019 9:53:16 AM R58498 Benzene ND 0.019 mg/Kg 1 Toluene ND 0.038 R58498 mg/Kg 3/20/2019 9:53:16 AM 1 Ethylbenzene ND 0.038 mg/Kg 3/20/2019 9:53:16 AM R58498 1 Xylenes, Total ND 0.075 mg/Kg 1 3/20/2019 9:53:16 AM R58498 Surr: 4-Bromofluorobenzene 105 80-120 %Rec 1 3/20/2019 9:53:16 AM R58498

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method E	Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range	
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	Page 4 of 0
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range	1 uge + 01 0
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit	as specified at

Analytical Report	
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CLIENT: Western Refining Southwest, In Project: Hospah Clean Up Lab ID: 1903896-005	nc. Matrix: SOIL	Colle	ection Dat	e: 3/1	of Panel East Side 9/2019 9:50:00 AM 20/2019 8:00:00 AM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	3/20/2019 11:00:00 AM	
EPA METHOD 8015M/D: DIESEL RANG	FORGANICS		0 0		Analyst:	
Diesel Range Organics (DRO)	75	9.5	mg/Kg	1	3/20/2019 12:22:54 PM	
Motor Oil Range Organics (MRO)	110	47	mg/Kg	1	2/20/2019 12:22:54 PM	
Surr: DNOP	103	70-130	%Rec	1	3/20/2019 12:22:54 PM	
EPA METHOD 8015D: GASOLINE RANG	3E				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	3/20/2019 10:16:32 AM	
Surr: BFB	96.1	73.8-119	%Rec	1	3/20/2019 10:16:32 AM	
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.018	mg/Kg	1	3/20/2019 10:16:32 AM	
Toluene	ND	0.036	mg/Kg	1	3/20/2019 10:16:32 AM	R58498
Ethylbenzene	ND	0.036	mg/Kg	1	3/20/2019 10:16:32 AM	R58498
Xylenes, Total	ND	0.071	mg/Kg	1	3/20/2019 10:16:32 AM	R58498
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	3/20/2019 10:16:32 AM	R58498
		So	il From \$	Sam	ple Location Rem	noved

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
 - J Analyte detected below quantitation limits Page 5 of 0
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at

Analytical Report	
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Hall Environmental Analysis	Laboratory	Inc			Lab Order: 1903896	
CLIENT: Western Refining Southwest, Ir Project: Hospah Clean Up Lab ID: 1903896-006		Client Coll	ection Dat	e: 3/1	Date Reported: of Panel West Side 9/2019 9:52:00 AM 20/2019 8:00:00 AM	/
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS Chloride	ND	30	mg/Kg	20	Analyst 3/20/2019 11:00:00 AM	
EPA METHOD 8015M/D: DIESEL RANGE					Analyst	
Diesel Range Organics (DRO) Motor Oil Range Organics (MRO) Surr: DNOP	74 140 100	9.8 49 70-130	mg/Kg mg/Kg %Rec	1 1 1	3/20/2019 12:46:50 PM 8/20/2019 12:46:50 PM 3/20/2019 12:46:50 PM	43785 43785
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO) Surr: BFB	ND 94.1	4.1 73.8-119	mg/Ko %Rec	1 1	3/20/2019 10:40:01 AM 3/20/2019 10:40:01 AM	
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluorobenzene	ND ND ND 101	0.020 0.041 0.041 0.081 80-120	mg/Kg mg/Kg mg/Kg %Rec	1 1 1 1	3/20/2019 10:40:01 AM 3/20/2019 10:40:01 AM 3/20/2019 10:40:01 AM 3/20/2019 10:40:01 AM 3/20/2019 10:40:01 AM	R58498 R58498 R58498
		Sc	bil From S	Sam	ple Location Rer	noved

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
 - J Analyte detected below quantitation limits Page 6 of 0
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified at

Analytical Report Lab Order 1903C52 Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Andeavor Bloomfield

Hospah Clean Up

Client Sample ID: N of Panel West Side Collection Date: 3/25/2019 11:25:00 AM

Lab ID: 1903C52-001

Project:

Collection Date: 3/25/2019 11:25:00 AM

Matrix: MEOH (SOIL) Received Date: 3/27/2019 8:15:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	60	mg/Kg	20	3/27/2019 1:42:15 PM	43904
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	3/27/2019 9:54:32 AM	43900
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	3/27/2019 9:54:32 AM	43900
Surr: DNOP	95.7	70-130	%Rec	1	3/27/2019 9:54:32 AM	43900
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	3.8	mg/Kg	1	3/27/2019 11:41:59 AM	R58672
Surr: BFB	89.4	73.8-119	%Rec	1	3/27/2019 11:41:59 AM	R58672
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.019	mg/Kg	1	3/27/2019 11:41:59 AM	R58672
Toluene	ND	0.038	mg/Kg	1	3/27/2019 11:41:59 AM	R58672
Ethylbenzene	ND	0.038	mg/Kg	1	3/27/2019 11:41:59 AM	R58672
Xylenes, Total	ND	0.076	mg/Kg	1	3/27/2019 11:41:59 AM	R58672
Surr: 4-Bromofluorobenzene	92.2	80-120	%Rec	1	3/27/2019 11:41:59 AM	R58672

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: H PQL S Holding times for preparation or analysis exceeded Practical Quanitative Limit % Recovery outside of range due to dilution or matrix ND Not Detected at the Reporting Limit RL Reporting Detection Limit % Recovery outside of range due to dilution or matrix

Analytical Report Lab Order 1903C52 Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Andeavor Bloomfield

Hospah Clean Up

1903C52-002

Project:

Lab ID:

Client Sample ID: N of Panel East Side Collection Date: 3/25/2019 11:32:00 AM

Matrix: MEOH (SOIL) Received Date: 3/27/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	60	mg/Kg	20	3/27/2019 1:54:40 PM	43904
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	3/27/2019 10:18:38 AM	43900
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/27/2019 10:18:38 AM	43900
Surr: DNOP	94.6	70-130	%Rec	1	3/27/2019 10:18:38 AM	43900
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	3/27/2019 12:05:22 PM	R58672
Surr: BFB	88.0	73.8-119	%Rec	1	3/27/2019 12:05:22 PM	R58672
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.020	mg/Kg	1	3/27/2019 12:05:22 PM	R58672
Toluene	ND	0.040	mg/Kg	1	3/27/2019 12:05:22 PM	R58672
Ethylbenzene	ND	0.040	mg/Kg	1	3/27/2019 12:05:22 PM	R58672
Xylenes, Total	ND	0.079	mg/Kg	1	3/27/2019 12:05:22 PM	R58672
Surr: 4-Bromofluorobenzene	90.6	80-120	%Rec	1	3/27/2019 12:05:22 PM	R58672

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

 Qualifiers:
 H
 Holding times for preparation or analysis exceeded
 ND
 Not Detected at the Reporting Limit

 PQL
 Practical Quanitative Limit
 Practical Quanitative Limit
 Practical Quanitative Limit
 ND
 Not Detected at the Reporting Limit

 S
 % Recovery outside of range due to dilution or matrix
 ND
 Not Detected at the Reporting Limit

Analytical Report Lab Order 1903C52 Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Andeavor Bloomfield

Hospah Clean Up

1903C52-003

Project:

Lab ID:

Client Sample ID: E of Fence South Section Collection Date: 3/25/2019 11:38:00 AM

Matrix: MEOH (SOIL) Received Date: 3/27/2019 8:15:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: MRA
Chloride	ND	60	mg/Kg	20	3/27/2019 2:07:05 PM	43904
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analys	t: JME
Diesel Range Organics (DRO)	16	9.9	mg/Kg	1	3/27/2019 10:42:45 AM	43900
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/27/2019 10:42:45 AM	43900
Surr: DNOP	95.4	70-130	%Rec	1	3/27/2019 10:42:45 AM	43900
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.3	mg/Kg	1	3/27/2019 12:52:27 PM	R58672
Surr: BFB	90.4	73.8-119	%Rec	1	3/27/2019 12:52:27 PM	R58672
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.021	mg/Kg	1	3/27/2019 12:52:27 PM	R58672
Toluene	ND	0.043	mg/Kg	1	3/27/2019 12:52:27 PM	R58672
Ethylbenzene	ND	0.043	mg/Kg	1	3/27/2019 12:52:27 PM	R58672
Xylenes, Total	ND	0.085	mg/Kg	1	3/27/2019 12:52:27 PM	R58672
Surr: 4-Bromofluorobenzene	93.4	80-120	%Rec	1	3/27/2019 12:52:27 PM	R58672

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

 Qualifiers:
 H
 Holding times for preparation or analysis exceeded
 ND
 Not Detected at the Reporting Limit

 PQL
 Practical Quanitative Limit
 Practical Quanitative Limit
 Practical Quanitative Limit
 Practical Quanitative Limit

 S
 % Recovery outside of range due to dilution or matrix
 Practical Quanitative Limit
 ND
 Not Detected at the Reporting Limit





Univar USA Inc Safety Data Sheet

SDS No:	
Version No:	010 2015-01-29
Order No:	

3075 Highland Pkwy, Ste 200, Downers Grove, IL 60515 (425) 889 3400

Emergency Assistance

For emergency assistance involving chemicals call Chemtrec - (800) 424-9300



SAFETY DATA SHEET

1. Identification

1. Identification				
Product identifier	CAIROX [®] potassium permanganate			
Other means of identification SDS number	-			
Recommended use	Potassium Permanganate is an oxidant recommended for applications that require a strong oxidant.			
Recommended restrictions	Use in accordance with supplier's recommend	ations.		
Manufacturer / Importer / Suppli	er / Distributor information			
Manufacturer/Supplier	CARUS CORPORATION			
Address	315 Fifth Street,			
	Peru, IL 61354, USA			
Telephone	815 223-1500 - All other non-emergency inquiries about the product should be directed to the company			
E-mail	salesmkt@caruscorporation.com			
Website	www.caruscorporation.com			
Contact person	Dr. Chithambarathanu Pillai			
Emergency Telephone	For Hazardous Materials [or Dangerous Good	s] Incidents ONLY		
	(spill, leak, fire, exposure or accident), call CH CHEMTREC®, USA: 001 (800) 424-9300 CHEMTREC®, Mexico (Toll-Free - must be dia 01-800-681-9531	aled from within country):		
	CHEMTREC®, Other countries: 001 (703) 527	-3887		
2. Hazard(s) identification				
Physical hazards	Oxidizing solids	Category 2		
Health hazards	Acute toxicity, oral	Category 4		
	Skin corrosion/irritation	Category 1B		
	Serious eye damage/eye irritation	Category 1		
	Specific target organ toxicity, single exposure			
	Specific target organ toxicity, repeated exposure	Category 1 (Respiratory System, Central Nervous System)		
OSHA defined hazards	Not classified.			
Label elements				
		>		
Signal word	Danger			
Hazard statement		ed. Causes severe skin burns and eye damage. m). Causes damage to organs (Respiratory System, r repeated exposure.		
Precautionary statement				
Prevention	Keep away from heat. Keep/Store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product.			
Response	skin (or hair): Take off immediately all contami contaminated clothing before reuse. If in eyes: Remove contact lenses, if present and easy to	lowed: Rinse mouth. Do NOT induce vomiting. If on nated clothing. Rinse skin with water/shower. Wash Rinse cautiously with water for several minutes. do. Continue rinsing. If inhaled: Remove person to mmediately call a poison center/doctor. If exposed:		

Dispose of contents/container in accordance with local/regional/national/international regulations.

Storage

Disposal

Call a poison center/doctor.

Store locked up.

UNIVAR USA INC. ISS UzzaDAJTE:2012 3vi3e1-27 Ann etaatien (HNOC)	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
Supplemental information		
Hazard symbol		
Hazard statement	Very toxic to aquatic life with long lasting effect	ts.
Precautionary statement		
Prevention	Avoid release to the environment.	
Response	Collect spillage.	

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Potassium permanganate		7722-64-7	> 97.5
Composition comments	All concentrations are in percent by weight un percent by volume.	less ingredient is a gas. Gas	concentrations are in
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in difficulties, oxygen may be necessary. Get me	•	eathing. For breathing
Skin contact	Take off immediately all contaminated clothing medical attention immediately. Wash contamined attention immediately.		n plenty of water. Get
	Contact with skin may leave a brown stain of i removed by washing with a mixture of equal v peroxide, followed by washing with soap and v	olume of household vinegar	
Eye contact	Immediately flush with plenty of water for up to eyelids wide apart. Continue rinsing. Get med		ontact lenses and open
Ingestion	Immediately rinse mouth and drink plenty of w unconscious or is having convulsions. Do not so that stomach content doesn't get into the lu	induce vomiting. If vomiting	occurs, keep head low
Most important symptoms/effects, acute and delayed	Contact with this material will cause burns to t eye damage including blindness could result.	he skin, eyes and mucous m	embranes. Permanent
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea give oxygen. Decomposition products are alka		
General information	In the case of accident or if you feel unwell, se where possible). Ensure that medical personn precautions to protect themselves. Show this personal protection, see Section 8 of the SDS	el are aware of the material(safety data sheet to the doct	s) involved, and take or in attendance. For
5. Fire-fighting measures			
Suitable extinguishing media	Flood with water from a distance, water spray	or fog.	
Unsuitable extinguishing media	The following extinguishing media are ineffect Halogenated materials.	ive: Dry chemical. Foam. Ca	rbon dioxide (CO2).
Specific hazards arising from the chemical	May intensify fire; oxidizer. May ignite combus incompatible materials or heat (135 °C / 275 ° reaction. Oxidizing agent, may cause spontan and fire, corrosive vapors/gases may be formed	F) could result in violent exore eous ignition of combustible	thermic chemical
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pr Selection of respiratory protection for firefighting the workplace.		

Move container from fire area if it can be done without risk. Cool contain **ERISSON: Date: 2001 5-01-29** water until well after the fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Dike fire control water for later disposal. Water runoff can cause environmental damage.

6. Accidental release measures

o. Accidental release meas	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep upwind. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	Keep combustibles (wood, paper, oil, etc.) away from spilled material. Should not be released into the environment. This product is miscible in water. Stop leak if possible without any risk. Dike the spilled material, where this is possible. Clean up spills immediately by sweeping or shoveling up the material. Do not return spilled material to the original container; transfer to a clean metal or plastic drum. To clean up potassium permanganate solutions, follow either of the following two options:
	Option # 1: Dilute to approximately 6% with water, and then reduce with sodium thiosulfate, a bisulfite or ferrous salt solution. The bisulfite or ferrous salt may require some dilute sulfuric acid (10% w/w) to promote reduction. Neutralize with sodium carbonate to neutral pH, if acid was used. Decant or filter and deposit sludge in approved landfill. Where permitted, the sludge may be drained into sewer with large quantities of water.
	Option # 2: Absorb with inert media like diatomaceous earth or inert floor dry, collect into a drum and dispose of properly. Do not use saw dust or other incompatible media. Disposal of all materials shall be in full and strict compliance with all federal, state, and local regulations pertaining to permanganates.
	To clean contaminated floors, flush with abundant quantities of water into sewer, if permitted by federal, state, and local regulations. If not, collect water and treat as described above.
	Never return spills in original containers for re-use. For waste disposal, see Section 13 of the SDS.
Environmental precautions	Do not allow to enter drains, sewers or watercourses. Contact local authorities in case of spillage to drain/aquatic environment.
7. Handling and storage	
Precautions for safe handling	Take any precaution to avoid mixing with combustibles. Do not get this material in your eyes, on your skin, or on your clothing. Do not breathe dust or mist or vapor of the solution. Use personal protection as recommended in Section 8 of the SDS. If clothing becomes contaminated, remove and wash off immediately. When using, do not eat, drink or smoke. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid release to the environment.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep container tightly closed and in a well-ventilated place. Store in a cool, dry place. Store away from incompatible materials (See Section 10). Store in accordance with NFPA 430 requirements for Class II oxidizers.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Potassium permanganate (CAS 7722-64-7)	Ceiling	5 mg/m3	
US. ACGIH Threshold Limit Value	s		
Components	Туре	Value	Form
Potassium permanganate (CAS 7722-64-7)	TWA	0.1 mg/m3	Inhalable fraction.
,			B
		0.02 mg/m3	Respirable fraction.
US NIOSH Pocket Guide to Chem Components	ical Hazards: Recommended e Type	0	Respirable fraction.
		exposure limit (REL)	·
Components Potassium permanganate	Type TWA	exposure limit (REL) Value 1 mg/m3	
Components Potassium permanganate (CAS 7722-64-7)	Type TWA	exposure limit (REL) Value 1 mg/m3	Form

UNIVAR USA INC.		SDS NO:P1436VSX
SS Bibid Qida Timi 20a1 Gest 1-27	No biological exposure limits noted for the ingredient(s).	VERSION:010 2015-01-29
Ann Extedione: guidelines	Follow standard monitoring procedures.	
Appropriate engineering	Provide adequate general and local exhaust ventilation. An eye wash	and safety shower must be
controls	available in the immediate work area.	Tana salety shower must be
• •	such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles). Wear face shield	if there is risk of splashes.
Skin protection		
Hand protection	Wear chemical-resistant, impervious gloves. Use protective gloves n Suitable gloves can be recommended by the glove supplier.	nade of: Rubber or plastic.
Other	Wear appropriate chemical resistant clothing. Rubber or plastic apropriate	n.
Respiratory protection	In case of inadequate ventilation or risk of inhalation of dust, use suit with particle filter. In the United States of America, if respirators are u instituted to assure compliance with OSHA 29 CFR 1910.134.	
	Measurement Element: Manganese (Mn)	
	10 mg/m3 Any particulate respirator equipped with an N95, R95, or P95 filter (ir filtering facepieces) except quarter-mask respirators. The following fi R99, P99, N100, R100 or P100. Any supplied-air respirator.	
	25 mg/m3 Any supplied-air respirator operated in a continuous-flow mode. Any powered, air-purifying respirator with a high-efficiency particulate	e filter.
	50 mg/m3 Any air-purifying, full-face piece respirator equipped with an N100, R Any supplied-air respirator with a tight-fitting face piece that is operat Any powered, air-purifying respirator with a tight-fitting face piece and filter. Any self-contained breathing apparatus with a full face piece. Any supplied-air respirator with a full face piece.	ted in a continuous-flow mode.
	500 mg/m3 Any supplied-air respirator operated in a pressure-demand or other p	positive-pressure mode.
	Emergency or planned entry into unknown concentrations or IDLH co Any self-contained breathing apparatus that has a full face piece and pressure-demand or other positive-pressure mode.	
	Escape Any air-purifying, full-face piece respirator equipped with an N100, R Any appropriate escape-type, self-contained breathing apparatus.	100, or P100 filter.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	When using, do not eat, drink or smoke. Keep from contact with cloth materials. Remove and wash contaminated clothing promptly. Wash immediately after handling the product. Handle in accordance with go safety practice.	hands before breaks and
9. Physical and chemical J	properties	
Appearance	Dark purple solid with metallic luster.	
Physical state	Solid.	
Form	Solid.	
Color	Dark purple.	
Odor	Odorless.	
Odor threshold	Not available.	
рН	Not applicable.	
Melting point/freezing point	Starts to decompose with evolution of oxygen (O2) at temperatures a	above 150 °C. Once initiated,
Initial boiling point and boiling	the decomposition is exothermic and self sustaining. Not applicable.	
range		

CAIROX® potassium permanganate 907273 Version #: 01 Revision date: - Issue date: 27-November-2013

Not applicable. Not applicable.

Non flammable.

Flash point

Evaporation rate

Flammability (solid, gas)

UNIVAR USA INC.

(%)	
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	2.7 (20 °C) (Water = 1)
Solubility(ies)	6 % (20 °C) 20 % (65 °C)
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Other information Explosive properties Molecular weight Oxidizing properties	Not explosive. Can explode in contact with sulfuric acid, peroxides and metal powders. 158.03 Strong oxidizing agent.
10. Stability and reactivity	
Reactivity	The product is non-reactive under normal conditions of use, storage and transport.

Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Contact with combustible material may cause fire. Can explode in contact with sulfuric acid, peroxides and metal powders. Starts to decompose with evolution of oxygen (O2) at temperatures above 150 °C. Once initiated, the decomposition is exothermic and self sustaining.
Conditions to avoid	Contact with incompatible materials or heat (135 $^\circ$ C / 275 $^\circ$ F) could result in violent exothermic chemical reaction.
Incompatible materials	Acids. Peroxides. Reducing agents. Combustible material. Metal powders. Contact with hydrochloric acid liberates chlorine gas.
Hazardous decomposition products	By heating and fire, corrosive vapors/gases may be formed.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Harmful if swallowed.
Inhalation	May cause irritation to the respiratory system.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Symptoms related to the physical, chemical and toxicological characteristics	Contact with this material will cause burns to the skin, eyes and mucous membranes. Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity	Harmful if swallowed.		
Components	Species	Test Results	
Potassium permanganate (CAS	S 7722-64-7)		
Acute			
<i>Dermal</i> LD50	Rat	2000 mg/kg	
Oral LD50	Rat	2000 mg/kg	
Skin corrosion/irritation	Causes severe skin burns.		
Serious eye damage/eye irritation	Causes serious eye damage.		

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ISS lates pill at on Escala itization-27	Not classified. VERSION:010 20
Ann skation	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target organ toxicity - single exposure	Causes damage to organs (respiratory system).
Specific target organ toxicity - repeated exposure	Causes damage to organs (respiratory system, central nervous system) through prolonged or repeated exposure.
Aspiration hazard	Not classified.
Chronic effects	May cause damage to respiratory system. Prolonged exposure, usually over many years, to manganese oxide fume/dust can lead to chronic manganese poisoning, chiefly affecting the central nervous system.

12. Ecological information

Ecotoxicity

UNIVAR USA INC.

Very toxic to aquatic life with long lasting effects.

cotoxicity	very toxic to	aquatic life with long lasting effects.		
Components		Species	Test Results	
Potassium permanganate (C	AS 7722-64-7)			
Aquatic				
Fish	LC50	Bluegill (Lepomis macrochirus)	2.7 mg/l, 96 hours, static	
			2.3 mg/l, 96 hours, flow through	
			2.3 mg/l, 96 hours	
			1.8 - 5.6 mg/l	
		Carp (Cyprinus carpio)	3.16 - 3.77 mg/l, 96 hours	
			2.97 - 3.11 mg/l, 96 hours	
		Goldfish (Carassius auratus)	3.3 - 3.93 mg/l, 96 hours, static	
		Milkfish, salmon-herring (Chanos chanos)	> 1.4 mg/l, 96 hours	
		Rainbow trout (Oncorhynchus mykiss)	1.8 mg/l, 96 hours	
			1.08 - 1.38 mg/l, 96 hours	
			0.77 - 1.27 mg/l, 96 hours	
		Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.275 - 0.339 mg/l, 96 hours	
ersistence and degradability	Expected to t	be readily converted by oxidizable material	s to insoluble manganese oxide.	
oaccumulative potential	Potential to bioaccumulate is low.			
obility in soil	The product i	The product is miscible with water. May spread in water systems.		
ther adverse effects	None known.			
3. Disposal consideratio	ns			
sposal instructions	Dispose of co	ontents/container in accordance with local/	regional/national/international regulations	
azardous waste code	D001: Ignitab The Waste co disposal com	ode should be assigned in discussion betw	veen the user, the producer and the wast	
aste from residues / unused oducts	Do not allow	this material to drain into sewers/water sup	oplies.	
ontaminated packaging		d containers may retain product residue, fo		

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Rinse container at least three times to an absence of pink color before disposing. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT	
UN number	UN1490
UN proper shipping name	Potassium permanganate
Transport hazard class(es)	5.1
Subsidiary class(es)	-
Packing group	II
Environmental hazards	
Marine pollutant	Yes

IVAR USA INC. UE DATE:2013-11-27	SDS NO:P ² VERSION:010 20
Speciai provisions	Read safety instructions, SDS and emergency procedures before handling. IB8, IP2, IP4, T3, TP33
Packaging exceptions Packaging non bulk	152 212
Packaging bulk IATA	240
UN number UN proper shipping name	UN1490 Potassium permanganate
Transport hazard class(es)	5.1
Subsidiary class(es)	-
Packaging group Environmental hazards	Yes
Labels required	5.1
ERG Code Special precautions for user	5L Read safety instructions, SDS and emergency procedures before handling.
IMDG	
UN number	UN1490 POTASSIUM PERMANGANATE
UN proper shipping name Transport hazard class(es)	5.1
Subsidiary class(es)	-
Packaging group Environmental hazards	11
Marine pollutant	Yes
Labels required	5.1
EmS Special precautions for user	F-H, S-Q Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
15. Regulatory information	
US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
	CERCLA/SARA Hazardous Substances - Not applicable.
	Drug Enforcement Administration (DEA) (21 CFR 1310.02 (b) 8: List II chemical.
	Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (6 CFR 27, Appendix A): Listed.
	otification (40 CFR 707, Subpt. D)
Not regulated. US. OSHA Specifically Regula Not listed.	ated Substances (29 CFR 1910.1001-1050)
CERCLA Hazardous Substan Not listed.	ce List (40 CFR 302.4)
Superfund Amendments and Rea Hazard categories	uthorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting) Chemical name	CAS number % by wt.
Potassium permanganate	7722-64-7 > 97.5

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Potassium permanganate (CAS 7722-64-7)

IVAR USA INC.			SDS NO:P1436VS>
SUE CDATE: 201(3A1) section	112(r) Accidental Poloas	Provention (40 CEP 68 130)	VERSION:010 2015-01-29
notationNot regulated.			
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance		
Safe Drinking Water Act (SDWA)	Not regulated.		
Drug Enforcement Adm Chemical Code Number		ssential Chemicals (21 CFR 1310.02)	b) and 1310.04(f)(2) and
	anate (CAS 7722-64-7)	6579 2 Exempt Chemical Mixtures (21 CFF	R 1310 12(c))
-	anate (CAS 7722-64-7)	15 % wt	
DEA Exempt Chemical	. ,		
-	anate (CAS 7722-64-7)	6579	
Food and Drug Administration (FDA)	Not regulated.		
US state regulations	This product does not con defects or other reproduct	tain a chemical known to the State of C tive harm.	alifornia to cause cancer, birth
	California OSH Hazardou	s Substance List: Listed.	
US. Massachusetts RT	K - Substance List		
1 0	anate (CAS 7722-64-7)		
•	and Community Right-to-		
1 0	anate (CAS 7722-64-7) - Hazardous Substances	500 lbs	
-	anate (CAS 7722-64-7)		
US. Rhode Island RTK			
Not regulated.			
US. California Proposition 6	5		
•		eproductive Toxicity (CRT): Listed su	bstance
Not listed.	.	, , , , , , , , , , , , , , , , , , , ,	
International Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	•	nemical Substances (AICS)	Yes
Canada	Domestic Substances List	t (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)		No
China	Inventory of Existing Chemical Substances in China (IECSC)		Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) Yes Substances (EINECS)		Yes
Europe	European List of Notified	Chemical Substances (ELINCS)	No
Japan		New Chemical Substances (ENCS)	Yes
Korea		Existing Chemicals List (ECL)	
New Zealand	New Zealand Inventory		
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)		Yes
United States & Puerto Rico	Toxic Substances Control	Act (TSCA) Inventory	Yes
		rements administered by the governing coun e not listed or exempt from listing on the inve	
16. Other information, incl	uding date of prepara	ation or last revision	
Issue date	27-November-2013		
Revision date	-		

SDS NO:P1436VSX VERSION:010 2015-01-29

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List of abbreviations	 GHS: Globally Harmonized System of Classification and Labeling of hazardous properties of Chemicals. TWA: Time weighted average. LD50: Lethal Dose, 50%. LC50: Lethal Concentration, 50%. IMDG: International Maritime Dangerous Goods. IATA: International Air Transport Association. MARPOL: International Convention for the Prevention of Pollution from Ships.
References	HSDB® - Hazardous Substances Data Bank Registry of Toxic Effects of Chemical Substances (RTECS) IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
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Univar USA Inc Safety Data Sheet

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