

August 24, 2021

District Supervisor Oil Conservation Division, District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Closure Report ConocoPhillips MCA 1-A Header Release Unit Letter G, Section 30, Township 17 South, Range 32 East Lea County, New Mexico 1RP-3231 Incident ID# NTO1422438684

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips to assess a release that occurred from a 6inch transite production line northeast of the Maljamar Cooperative Agreement (MCA) 1-A Header. The release footprint is located in Public Land Survey System (PLSS) Unit Letter G, Section 30, Township 17 South, Range 32 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.806853°, -103.802790°, as shown on Figures 1 and 2.

### BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on March 14, 2012. The release occurred as the result of a failed 6-inch transite production line and reportedly encompassed an area of 2,125 square feet. Approximately 30 barrels (bbls) of produced water and 17 bbls of oil were released, and no fluids were reported recovered. The New Mexico Oil Conservation Division (NMOCD) received the initial C-141 report form for the release on August 12, 2014. The release was subsequently assigned the Remediation Permit (RP) number 1RP-3231. The Incident ID for this release is NTO1422438684.

### SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells located within an 800-meter (approximately ½-mile) radius of the release location. However, there are two water wells within a 3,000-meter (approximately 1.9-mile) radius with an average depth to groundwater at 78 feet below ground surface (bgs). The site characterization data is included in Appendix B.

### **REGULATORY FRAMEWORK**

Based upon the release footprint location and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action

levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the remediation RRALs for the Site are as follows:

Constituent	Remediation RRAL
Chloride	10,000 mg/kg
TPH (GRO+DRO+ORO)	2,500 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 feet bgs) outside of active oil and gas operations are as follows:

Constituent	<b>Reclamation Requirements</b>
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg

### SITE ASSESSMENT AND SUMMARY OF SAMPLING RESULTS

The release was initially assessed by Diamondback Disposal Services, Inc. (Diamondback) in June and October 2012 and Rice Environmental Consulting & Safety (RECS) in June 2014. Based on the results of the above-mentioned site assessments, RECS submitted a Corrective Action Plan (CAP) to NMOCD and the Bureau of Land Management (BLM) on behalf of ConocoPhillips on August 13, 2014. The CAP was approved by the NMOCD and BLM via email on August 13, 2014. The analytical results associated with the sampling events conducted by Diamondback and RECS are summarized in Table 1. The sample locations are shown on Figure 3.

In order to complete delineation of the release and confirm the results of the previous soil investigations performed by Diamondback and RECS, Tetra Tech personnel conducted an additional soil investigation on July 29 and August 13, 2020 on behalf of ConocoPhillips. A total of two (2) borings (BH-1 and BH-2) were installed within the release extent to depths of 27 feet and 30 feet bgs, respectively, using an air rotary drilling rig in July 2020. Additionally, in August 2020, six (6) borings (H 20-1 through H 20-6) were installed around the perimeter of the release extent to a depth of 4 feet bgs to horizontally delineate the release using a hand auger. Figure 4 depicts the approximate release extent and both the July and August 2020 soil boring locations.

A total of forty (40) samples were collected from the eight (8) borings and submitted to Pace Analytical National Center for Testing & Innovation (Pace) in Nashville, Tennessee to be analyzed for chlorides via EPA Method 300.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B.

Results from the July and August 2020 soil sampling event are summarized in Table 2. The analytical results associated with BH-1 and BH-2 sample locations confirmed the results of the previous soil investigations. The analytical results from the samples collected from these locations were over applicable RRALs for chloride and TPH near the surface within the release footprint. The results associated with perimeter sample locations H-20-1 through H-20-6 were below Site RRALs for chloride, TPH and BTEX.

### REMEDIATION WORK PLAN AND ALTERNATIVE CONFIRMATION SAMPLING PLAN

The Release Characterization Work Plan (Work Plan) was prepared by Tetra Tech on behalf of ConocoPhillips and submitted to NMOCD on November 24, 2020 with fee application payment PO Number 8YULF-201124-C-1410. The Work Plan described the results of the release assessment and provided characterization of the impact at the site. The Work Plan was approved via email by Bradford Billings on Thursday, February 18, 2021. Mr. Billings also executed page 4 of the C-141 form included with the Work Plan.

### **REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING**

From June 16 – July 7, 2021 Tetra Tech personnel were onsite to supervise the remediation activities proposed in the approved Work Plan, including excavation, disposal, and confirmation sampling. Prior to breaking ground, permission was granted from the BLM (Arthur Arias) via email on March 29, 2021. Impacted soils were excavated until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site. Once field screening was completed, confirmation floor and sidewall samples were collected for laboratory analysis to verify that the impacted materials were properly removed. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs to demonstrate compliance.

Per the approved Alternative Confirmation Sampling Plan, confirmation samples were collected such that each discrete sample (sidewall and floor) were representative of no more than 500 square feet of excavated area. A total of nine (9) floor sample locations and thirteen (13) sidewall sample locations were collected during the remedial activities. Confirmation sidewall sample locations were labeled with "SW"-#, and confirmation floor sample locations were labeled with "FS"-#. Excavated areas, depths and confirmation sample locations are shown in Figure 5.

Collected confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed within appropriate holding times by Pace Analytical Services, LLC in Lenexa, Kansas. The soil samples were analyzed for TPH (DRO and ORO) by EPA Method 8015, TPH Low Fraction (GRO) by EPA Method 8015D, BTEX by EPA Method 8260B, and chlorides by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C.

Per the NMOCD-approved Work Plan, the observed impacted area was excavated to 4 feet below existing grade. Per the approved plan, the liner was emplaced once the excavation was completed to 4' and the area was backfilled. Upon review of floor sample analytical results, two areas, one in the vicinity around FS-2 and the other in the vicinity around FS-7 and FS-8, had analytical results exhibiting elevated concentrations of TPH in the floor samples collected at 4' bgs.

Based on the data, these two areas were re-excavated through the existing backfill and deepened an additional 1 foot to a total depth of 5 feet bgs. These areas are indicated in Figure 5. A secondary floor sample was collected for these three confirmation locations and submitted for analysis. The analytical results associated with these secondary samples were below the respective RRALs for the site (Table 3). An additional liner was emplaced on the floor of these two distinct areas. Subcontractor personnel exercised caution while working around the surface and subsurface flowlines in the vicinity. Thus, after iterative confirmation sampling at the floor sample and sidewall sample locations, all final confirmation soil samples (floor and sidewall) were below the respective RRALs for chloride, BTEX, and TPH. The results of the June and July 2021 confirmation sampling events are summarized in Table 3.

All the excavated material was transported offsite for proper disposal. Approximately 740 cubic yards of material were transported to the R360 facility in Hobbs, New Mexico. Photographs from the excavated areas prior to backfill are provided in Appendix D. Once confirmation sampling activities were completed and associated analytical results were below the RRALs, a 20-mil polyethylene liner was placed at the base of the excavation, and the excavated areas were backfilled with clean material to surface grade. The reclaimed areas contain soil backfill consisting of suitable material to establish vegetation at the site. Copies of the waste manifests are included in Appendix E.

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As prescribed in the Work Plan, the backfilled areas were seeded in May 2021 to aid in revegetation. Based on the soils at the site and the approved Work Plan, the New Mexico State Land Office (NMSLO) Sandy (S) Sites Seed Mixture were used for seeding and planted in the amount specified in the pounds pure live seed (PLS) per acre.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate.

### CONCLUSION

ConocoPhillips respectfully requests closure of this release based on the confirmation sampling results and remediation activities performed. The MCA 1-A Header Release (1RP-3231) is included in an Agreed Compliance Order-Releases (ACO-R) between ConocoPhillips and the NMOCD signed on May 7 and 9, 2019, respectively. The final C-141 forms are enclosed in Appendix A. If you have any questions concerning the remediation activities for the Site, please call me at (512) 739-7874 or Christian at (512) 338-2861.

Sincerely, Tetra Tech, Inc.

Samantha K. Abbott, P.G. Senior Staff Geologist

Christian M, Llull, P.G. Project Manager

cc: Mr. Charles Beauvais, GPBU - ConocoPhillips Ms. Jenni Fortunato, RMR – ConocoPhillips

### LIST OF ATTACHMENTS

### Figures:

- Figure 1 Site Location Map
- Figure 2 Topographic Map
- Figure 3 Approximate Release Extent and Previous Boring Locations
- Figure 4 Approximate Release Extent and Additional Assessment Map
- Figure 5 Remediation Extents and Confirmation Sampling Locations

### Tables:

- Table 1 Summary of Analytical Results Initial Soil Assessment
- Table 2 Summary of Analytical Results Additional Soil Assessment
- Table 3 Summary of Analytical Results Confirmation Sampling

### **Appendices:**

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

Appendix C – Laboratory Analytical Data

Appendix D – Photographic Documentation

Appendix E – Waste Manifests

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# FIGURES



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# TABLES

### TABLE 1 SUMMARY OF ANALYTICAL RESULTS INITIAL SOIL ASSESSMENT 1RP-3231 / INCIDENT ID: NTO1422438684 CONOCOPHILLIPS MCA 1-A HEADER TRANSITE LINE RELEASE LEA COUNTY, NM

									BTEX	2						TPH	l <sup>3</sup>	
		Sample Depth	Chlorid	e1										GRO	)	DRC	)	Total TPH
Sample ID	Sample Date				Benzei	ne	Toluer	ıe	Ethylben	zene	Total Xyl	enes	Total BTEX	C <sub>6</sub> - C	10	>C <sub>10</sub> -	C <sub>28</sub>	(GRO+DRO)
	f		mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	Q	mg/kg	Q	mg/kg
		SURFACE	32.0		2.93		82.0		93.8		148		327	971		11500		12471
HA-1	6/6/2012	9	240		< 0.050		< 0.050		0.077		0.224		0.301	< 10.0		358		358
		14	400		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		123		123
		SURFACE	32.0	[	2.42		43.4	[	46.8		69.0		162	2950		8830		11780
HA-2	6/6/2012	10	10100		< 0.500		0.761		1.48		3.31		5.55	12.9		179		192
		13	2680		< 0.050		0.058		0.154		0.383		0.595	11.6		290		302
		5	656	[	< 0.050		< 0.050	[	0.102		0.347		0.449	< 10.0		166		166
		10	5280		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		149		149
		15	112		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		< 10.0		-
		20	592		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		354		354
		25	112		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		95.1		95.1
		30	160		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		95.6		95.6
SS-1	10/16/2012	40	160		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		110		110
		50	96.0		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		69.8		69.8
		60	160		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		254		254
		70	96.0		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		74.4		74.4
		80	64.0		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		37.0		37.0
		90	96.0		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		92.0		92.0
		100	64.0		< 0.050		< 0.050		< 0.050		< 0.150		-	< 10.0		44.7		44.7
		5	128		< 0.050		0.339		0.537		1.30		2.18	19.8		206		226
		10	496		< 0.050		< 0.050		0.144		0.488		0.632	< 10.0		102		102
		15	704		< 0.050		0.246		0.499		1.22		1.97	35.6		326		362
SS-2	10/16/2012	20	1400		< 0.050		0.132		0.332		0.857		1.32	17.0		184		201
33-2	10/10/2012	25	944		< 0.050		0.052		0.148		0.340		0.540	12.0		490		502
		30	944		< 0.050		< 0.050		0.089		0.229		0.318	12.1		560		572
		40	784		< 0.050		< 0.050		0.086		0.352		0.438	15.2		579		594
		50	784		< 0.050		< 0.050		0.066		0.268		0.334	12.0		626		638
		55	432		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		340		340
SB-2	6/18/2014	65	1150		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		230		230
		75	352		< 0.050		< 0.050		< 0.050		< 0.150		< 0.300	< 10.0		236		236

NOTES:

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ft. Feet bgs Below ground surface Bold and italicized values indicate exceedance of proposed RRALs

1 Method SM4500Cl-B 2 Method 8021B

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Method 8015M

mg/kg Milligrams per kilogram TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

#### TABLE 2 SUMMARY OF ANALYTICAL RESULTS ADDITIONAL SOIL ASSESSMENT 1RP-3231 / INCIDENT ID: NTO1422438684 CONOCOPHILLIPS MCA 1-A HEADER TRANSITE LINE RELEASE LEA COUNTY, NM

			51.14 C								BTEX <sup>2</sup>								TPH <sup>3</sup>			
		Sample Depth Interval	Field Screen	ning Results	Chloride1		_								Total BTEX	GRO <sup>4</sup>		DRO		ORO		Total TPH
Sample ID	Sample Date	intervar	Chloride	PID			Benzene		Toluene		Ethylbenzene	2	Total Xylenes		Total BTEX	C3 - C10		C <sub>10</sub> - C <sub>28</sub>	3	C <sub>28</sub> - C <sub>40</sub>		(GRO+DRO+ORO)
		ft. bgs	pp	om	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
		0-1	998	0.0	611		< 0.00147		< 0.00733		< 0.00366		< 0.00952		-	< 0.123		2.13	1	3.94	ΒJ	6.07
		2-3	-	0.0	467		< 0.00108		< 0.00541		< 0.00270		< 0.00703		-	< 0.104		< 4.16		0.807	ΒJ	0.807
		6-7	626	0.0	334		< 0.00108		< 0.00538		< 0.00269		< 0.00700		-	0.0273	1	2.13	1	1.11	ВJ	3.27
		9-10	-	0.0	165	1	< 0.00138		< 0.00691		< 0.00345		< 0.00898		-	< 0.108		1.98	1	1.25	1	3.23
		12-13	499	0.0	182	١	< 0.00110		< 0.00549		< 0.00275		< 0.00714		-	< 0.110		< 4.39		< 4.39		
BH-1	7/29/2020	14-15	-	0.0	288		< 0.00109		< 0.00547		< 0.00274		< 0.00711		-	0.0247	1	< 4.34		< 4.34		0.0247
011-1	1/23/2020	17-18	-	0.0	715		< 0.00108		< 0.00542		< 0.00271		0.00133	1	0.00133	0.0410	J J3 J5	< 4.34		< 4.34		0.0410
		19-20	1820	0.0	1410		< 0.00109		< 0.00546		< 0.00273		< 0.00710		-	0.0300	1	< 4.37		< 4.37		0.0300
		22-23	-	0.0	3190		< 0.00123		< 0.00614		< 0.00307		< 0.00799		-	0.0484	1	< 4.46	13 J6	< 4.46		0.0484
		24-25	-	0.0	2780		< 0.00108		< 0.00540		< 0.00270		< 0.00702		-	< 0.108		1.93	1	0.316	1	2.25
		26-27	3730	0.0	2990		< 0.00108		< 0.00542		< 0.00271		< 0.00705		-	0.0269	1	< 4.34		< 4.34		0.0269
		29-30	3310	0.0	3090		< 0.00109		< 0.00546		< 0.00273		< 0.00710		-	< 0.109		< 4.37		< 4.37		-
		0-1	-	0.0	17.1	J	< 0.00130		< 0.00652		< 0.00326		0.00206	J	0.00206	109	1	1270		684		2063
		2-3	-	0.0	78.3	J	< 0.00125		< 0.00627		< 0.00314		< 0.00815		-	0.0318	ВJ	2.39	J	< 4.51		2.42
		6-7	-	0.0	58.8	J	< 0.00109		< 0.00543		< 0.00272		0.00139	J	0.00139	7.48		485		346		838
		9-10	-	0.0	393		< 0.00148		< 0.00738		< 0.00370		< 0.00959		-	< 0.123		2.11	J	0.658	J	2.77
		11-12	-	0.0	289		< 0.00112		< 0.00558		< 0.00280		< 0.00725		-	< 0.111		< 4.42		< 4.42		
BH-2	7/29/2020	14-15	-	0.0	172		< 0.00108		< 0.00540		< 0.00270		< 0.00701		-	< 0.108		< 4.32		< 4.32		
		17-18	-	0.0	315		< 0.00108		< 0.00539		< 0.00270		< 0.00701			< 0.108		< 4.32		1.78	ВJ	1.78
		19-20	-	0.0	720		< 0.00110		< 0.00549		< 0.00274		< 0.00713		-	< 0.110		< 4.39		1.94	BJ	1.94
		22-23	1670	0.0	1200		< 0.00125		< 0.00623		< 0.00311		0.00114	J	0.00114	< 0.112		< 4.49		0.696	ВJ	0.696
		26-27	-	0.0	1180		< 0.00108		< 0.00542		< 0.00271		< 0.00705		-	0.0321	J	8.78		9.02	в	17.8
		0-1	12	0.0	< 20.2		< 0.00102		< 0.00511	1	< 0.00255		< 0.00664		-	< 0.101		7.09		6.60		13.7
H-20-1	8/13/2020	2-3	20	0.0	< 20.1		< 0.00145		< 0.00726		< 0.00363		< 0.00944			< 0.123		< 4.90		< 4.90		
		3-4	-	-	22.2	J	< 0.00147		< 0.00735		< 0.00367		< 0.00955			< 0.124		< 4.94		< 4.94		
		0-1	19	0.0	< 20.3		< 0.00103		< 0.00513		< 0.00256		< 0.00666		-	< 0.101	1	2.50		1.14		3.64
H-20-2	8/13/2020	2-3	11	0.0	18.0		< 0.00145		< 0.00726		< 0.00363		< 0.00944		-	< 0.123		< 4.90	-	< 4.90		5.04
11202	0/13/2020	3-4		-	22.2	,	< 0.00143		< 0.00735	-	< 0.00367		< 0.00955		-	< 0.123		< 4.94		< 4.94		-
		-								-						-	-	-	-	-	-	
	- / /	0-1	-	-	10.6	1	< 0.00124		< 0.00620		< 0.00310		< 0.00807		-	< 0.113		< 4.48		< 4.48		-
H-20-3	8/13/2020	2-3	-	-	< 20.1		< 0.00101		< 0.00505	_	< 0.00253		< 0.00657		-	< 0.101		< 4.02		1.67	1	1.67
		3-4	-	-	17.4	1	< 0.00144		< 0.00719		< 0.00359		< 0.00934		-	< 0.122		< 4.87		< 4.87		-
		0-1	12	0.0	46.6		< 0.00143		< 0.00717		< 0.00358		< 0.00932		-	< 0.122		< 4.87		< 4.87		
H-20-4	8/13/2020	2-3	9	0.0	20.3	J	< 0.00145		< 0.00725		< 0.00362		< 0.00942		-	< 0.124		< 4.90		< 4.90		
		3-4	-	-	18.6	1	< 0.00144		< 0.00721		< 0.00361		< 0.00938			< 0.122		< 4.88		< 4.88		-
		0-1	8	0.0	25.8		< 0.00149		< 0.00743		< 0.00371		< 0.00966		-	< 0.124		< 4.97		< 4.97		-
H-20-5	8/13/2020	2-3	12	0.0	58.7		< 0.00143		< 0.00714		< 0.00357		< 0.00928		-	< 0.121		< 4.85		< 4.85		-
		3-4	-	-	< 21.0		< 0.00110		< 0.00550		< 0.00275		< 0.00715		-	0.0520	ВJ	< 4.20		< 4.20		0.0520
		0-1	9	0.0	45.5		< 0.00144		< 0.00178		< 0.00359		< 0.00933		-	< 0.122		< 4.87		3.64	J	3.64
H-20-6	8/13/2020	2-3	11	0.0	19.0	J	< 0.00143		< 0.00714		< 0.00357		< 0.00929			< 0.121		< 4.86		< 4.86	-	-
		3-4	1 .	-	< 20.1	1	< 0.00101		< 0.00503	+	< 0.00251		< 0.00653			0.0536	BJ	3.51		< 4.01	+	3.56

ft. Feet

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#### Bold and italicized values indicate exceedance of proposed RRALs

bgs Below ground surface

ppm Parts per million

- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons GRO Gasoline range organics
- DRO Diesel range organics
- ORO Oil range organics
- 1 EPA Method 300.0
- EPA Method 8260B 2
- 3 EPA Method 8015
- 4 EPA Method 8015D/GRO

#### QUALIFIERS:

- B The same analyte is found in the associated blank.
- J The identification of the analyte is acceptable; the reported value is an estimate.
- J3 The associated batch QC was outside the established quality control range for precision.
- J5 The sample matrix interfered with the ability to make any accurate determination; spike is high.
- J6 The sample matrix interfered with the ability to make any accurate determination; spike is low.

### TABLE 3 SUMMARY OF ANALYTICAL RESULTS CONFIRMATION SAMPLING 1RP-3231 / INCIDENT ID: NTO1422438684 CONOCOPHILLIPS MCA 1-A HEADER TRANSITE LINE RELEASE LEA COUNTY, NM

			Field Course								BTEX <sup>2</sup>							TPH <sup>3</sup>	3		
		Sample Depth	Field Screet	ning Results	Chloride1		<b>D</b>		Calculture and		<b>T</b> -1		Tatal Video a	TableTEV	GRO		DRO	T	ORO		Total TPH
Sample ID	Sample Date		Chloride	PID			Benzene		Ethylbenzen	e	Toluene		Total Xylenes	Total BTEX	C <sub>3</sub> - C <sub>10</sub>		C <sub>10</sub> - C <sub>28</sub>		C28 - C35		(GRO+DRO+ORO)
		ft. bgs	pp	om	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg Q	mg/kg	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg
FS-1	6/24/2021	4	105	11.5	< 110		< 0.0054		< 0.0054		< 0.0054		< 0.0054	-	< 11.2		25.0	Т	< 10.8		25.0
FS-2	6/23/2021	4	65.6	143.3	< 105		< 0.264		< 0.264		< 0.264		< 0.264	-	< 9.9		2560		1190		3750
FS-2 (5')*	7/7/2021	5	-	-	< 103		< 0.0531		< 0.0531		< 0.106		< 0.266	-	< 10.6		15.0		14.7		29.7
FS-3	6/23/2021	4	24.1	10.9	< 101		< 0.262		< 0.262		< 0.262		< 0.262	-	< 9.6		< 9.7		< 9.7		-
FS-4	6/23/2021	4	26.7	2.3	< 99.5		< 0.0051		< 0.0051		< 0.0051		< 0.0051	-	< 9.6		< 9.7		< 9.7		-
FS-5	6/22/2021	4	21.4	0.4	< 103		< 0.0051		< 0.0051		< 0.0051		< 0.0051	-	< 10.3		< 10.0		< 10.0		-
FS-6	6/22/2021	4	150	97.0	< 97.0		< 0.0051		< 0.0051		< 0.0051		< 0.0051	-	< 10.2		3180		940		4120
FS-6 (5')*	7/7/2021	5	-	-	< 113		< 0.0605		< 0.0605		< 0.121		< 0.303	-	< 12.1		< 10.7		< 10.7		-
FS-7	6/22/2021	4	1140	46.5	621		< 0.254		< 0.254		< 0.254		< 0.254	-	< 10.2		5120		1600		6720
FS-7 (5')*	7/7/2021	5	-	-	< 112		< 0.0610		< 0.0610		< 0.122		< 0.305	-	< 12.2		< 10.8		< 10.8		-
FS-8	6/22/2021	4	22.3	2.3	< 105		< 0.0051		< 0.0051		< 0.0051		< 0.0051	-	< 10.2		< 9.9		< 9.9		-
FS-9	6/24/2021	4	201	121.3	123		< 0.0057		< 0.0057		< 0.0057		< 0.0057	-	< 12.3		104		24.9		129
NSW-1	6/16/2021	-	12.6	0.1	< 102		< 0.0050		< 0.0050		< 0.0050		< 0.0050	-	< 9.7		< 15.2	Т	< 15.2		-
ESW-1	6/16/2021	-	14.6	4.2	< 101		< 0.0050		< 0.0050		< 0.0050		< 0.0050	-	< 9.5	1	193	T	161		354
ESW-1 (6')*	6/22/2021	-	15.7	0.5	< 102		< 0.0050		< 0.0050		< 0.0050		< 0.0050	-	< 10.4		< 10.1		< 10.1		-
ESW-2	6/16/2021	-	27.3	0.2	< 102		< 0.0051		< 0.0051		< 0.0051		< 0.0051	-	< 10.0		< 10.1		18.7		18.7
ESW-3	6/16/2021	-	11.7	0.3	< 102		< 0.0050		< 0.0050		< 0.0050		< 0.0050	-	< 9.3		< 9.8		< 9.8		-
ESW-4	6/16/2021	-	14.8	0.5	< 101		< 0.0049		< 0.0049		< 0.0049		< 0.0049	-	< 9.7		< 10.0		< 10.0		-
ESW-5	6/16/2021	-	13.5	0.2	< 102		< 0.0050		< 0.0050		< 0.0050		< 0.0050	-	< 8.8		< 10.1		< 10.1		-
ESW-6	6/16/2021	-	11.7	0.3	< 101		< 0.0050		< 0.0050		< 0.0050		< 0.0050	-	< 9.5		< 9.9		< 9.9		-
SSW-1	6/16/2021	-	11.0	0.4	< 102		< 0.0050		< 0.0050		< 0.0050		< 0.0050	-	< 10.2		< 10.0	Т	< 10.0		-
WSW-1	6/16/2021	-	43.5	0.3	< 105		< 0.0052		< 0.0052		< 0.0052		< 0.0052	-	< 10.1		< 10.3	T	< 10.3		-
WSW-2	6/16/2021	-	14.6	0.3	< 100		< 0.0049		< 0.0049		< 0.0049		< 0.0049	-	< 10.0		< 9.6	T	< 9.6		-
WSW-3	6/16/2021	-	13.6	0.4	< 106		< 0.0053		< 0.0053		< 0.0053		< 0.0053	-	< 11.1		< 10.6	T	< 10.6		-
WSW-4	6/16/2021	-	10.3	0.1	< 100		< 0.0050		< 0.0050		< 0.0050		< 0.0050	-	< 8.9		< 10.0	T	< 10.0		-
WSW-5	6/16/2021	-	13.5	0.7	1060		< 0.0050		< 0.0050		< 0.0050		< 0.0050	-	< 9.8		< 10.0		< 10.0		-
WSW-5 (1')*	6/23/2021	-	16.4	1.3	< 96.8		< 0.0050	1	< 0.0050	1	< 0.0050	1	< 0.0050	-	< 8.9	1	< 10.0	T	< 10.0		-

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics DRO Diesel range organics
- ORO Oil range organics
- 1 EPA Method 9056
- 2 EPA Method 8260B
- 3 EPA Method 8015B

Bold and italicized values indicate exceedance of proposed Remediation RRALs and Reclamation Requirements.

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

Green highlight represents soil intervals that were removed during horizontal expansion of excavation sidewalls.

\* These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

#### QUALIFIERS:

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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# APPENDIX A C-141 Forms

NOBES OCD

AUG 1 2 2014

Attor

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Azteo, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resoun

Form C-141 Revised October 10, 2003

Submit 2 Cop District Off with

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

	Santa Fe,	NM	87505
Release	Notification	and	<b>Corrective</b> Action

Oil Conservation Division 1220 South St. Francis Dr.

Name of Co						OPERATO	A	NA THE	ial Report 🔲 Final Rep		
	ompany C	onocoPhilli	ips Com	pany			ohn W. Gates				
Address 3	300 North	A St. Bldg	6, Midla	and, TX	79705-540	6 Telephone	No. 505.391.3	158			
Facility Nat	me MCA	1A Header				Facility Ty	pe Oil and Ga	S			
Surface Ow	mer Fede	eral		M	lineral Ow	ner Federal		Lease	No LC 029410B		
					LOCAT	ION OF RE	LEASE		30-025-06115-		
Unit Letter	Section 30	Township 17	Range 32	Feet fr		North/South Line	Feet from the	East/West Line	County Lea		
Type of Rele Crude Oll Source of Re	& Produc	ed Water	L	atitude		87 Long RE OF REI Volume of Relea 47bbl (17oil, 30 Date and Hour o	se Iwater)	Volume (0oil, 0w	Recovered vater)		
	r producti iate Notice (	ion line(6" ( Given? Yes 🖾 No	1	Required		3/14/12 1403 If YES, To Who	C	3/14/201			
By Whom?	Justin W	light	-			Date and Hour	3/14/12	ŵ			
Was a Water		ched?	Yes D	No No			Impacting the Wa	lercourse.			
A 6 Inch ti	ransite pro		e at the	MCA 1		failed at the co	ollar due to susp	ected age/fatig	ie		
A 6 Inch tr Describe Are A 25' X 85	ransite pro	and Cleanup eep area of	Action Ta	MCA 1	A Hender	vards north an		header. No flui	ie ds could be recovered. The		
A 6 Inch tr Describe Are A 25' X 85 spill site wi hereby certi- egulations a public health should their o or the enviro ederal, state,	ransite pro- ca Affected 5' X 24" de III be Delh ify that the ill operators or the envi operations i nment. In s , or local lar	and Cleanup eep area of teated/Rem information g are required ronment. The tave failed to iddition, NMG ws and/or reg	Action Ta pasturely leediated f iven abov to report a e acceptan adequately OCD accep ulations.	MCA 1 ken.* and loca in accord we is true a und/or file acc of a C- y investig	A Hender ated ~350 y dance with and complete certain rele -141 report ate and rem	vards north an a BLM & NMG e to the best of m ase notifications by the NMOCD ediate contamina port does not relic	d east of the 1A DCD guidelines y knowledge and u and perform corre- narked as "Final R thou that pose a the we the operator of OIL CON	header. No fluf inderstand that pur- ctive actions for re- ceport" does not re- reat to ground wate responsibility for <u>SERVATION</u>	ds could be recovered. The rsuant to NMOCD miles and leases which may endanger lieve the operator of liability er, surface water, human health compliance with any other <u>I DIVISION</u>		
A 6 Inch tr Describe Are A 25' X 85 spill site with hereby certi- egulations a public health should their of or the enviro cederal, state Bignature:	ransite pro- ca Affected 5' X 24" do ill be Delh ify that the ill operators or fhe envi operations i mment. In s , or local lar	and Cleanup eep area of neated/Rem information g are required ronnent. The nave failed to iddition, NMG ws and/or reg	Action Ta pasturely leediated f iven abov to report a e acceptan adequately OCD accep ulations.	MCA 1 ken.* and loca in accord we is true a und/or file acc of a C- y investig	A Hender ated ~350 y dance with and complete certain rele -141 report ate and rem	vards north an a BLM & NMG e to the best of m ase notifications by the NMOCD ediate contamina port does not relic	d east of the 1A DCD guidelines y knowledge and u and perform corre- narked as "Final R thou that pose a the we the operator of OIL CON	header. No flui inderstand that pur- ctive actions for re- teport" does not re- reat to ground wate responsibility for	ds could be recovered. The rsuant to NMOCD miles and leases which may endanger lieve the operator of liability er, surface water, human health compliance with any other <u>I DIVISION</u>		
A 6 Inch tr Describe Are A 25' X 85 pill site wi hereby certi- cgulations a public health hould their o or the enviro ederal, state Bignature:	ransite pro- ca Affected 5' X 24" do ill be Delh ify that the ill operators or fhe envi operations I mment. In s , or local la c. John W.	and Cleanup eep area of neated/Rem information g are required ronnent. The nave failed to iddition, NMG ws and/or reg	Action Ta pasturely leediated f iven abov to report a e acceptan adequately OCD accep ulations.	MCA 1 ken.* and loca in accord we is true a und/or file acc of a C- y investig	A Hender ated ~350 y dance with and complete certain rele -141 report ate and rem	vards north an a BLM & NMG e to the best of m ase notifications by the NMOCD - ediate contamina- out does not relic	d east of the 1A DCD guidelines y knowledge and u and perform corre- narked as "Final R thou that pose a the we the operator of OIL CON	header. No fluf inderstand that purchive actions for re- teport" does not re- reat to ground water responsibility for SERVATION	ds could be recovered. The rsuant to NMOCD miles and leases which may endanger lieve the operator of liability er, surface water, human health compliance with any other <u>I DIVISION</u>		
A 6 Inch tr Describe Are A 25' X 85 spill site wi hereby certi- egulations a bublic health should their of or the enviro federal, state, Signature: Printed Name	ransite pro- ca Affected S' X 24" do III be Della ify that the ll operators or the envi operations I rament. In s , or local la c: John W. R Lend ess: John.W	and Cleanup eep area of heated/Rem information g are required ronnent. The have failed to iddition, NMG ws and/or reg 	Action Ta pastureli lediated i liven abov to report a e acceptan adequately OCD acceptan ulations.	MCA 1	A Hender ated ~350 y dance with and complete certain rele -141 report ate and rem a C-141 rep	Approval D Conditions	d east of the 1A DCD guidelines y knowledge and u and perform corre- narked as "Final R don that pose a the two the operator of <u>OIL CON</u> y District Supergis	header. No fluf inderstand that pur- ctive actions for re- teport" does not re- reat to ground water responsibility for <u>SERVATION</u> <u>SERVATION</u> <u>SERVATION</u>	ds could be recovered. The rsuant to NMOCD miles and deases which may endanger lieve the operator of liability er, surface water, human health compliance with any other <u>I DIVISION</u>		

Received by OCD: 8/24/2021/2:16:51 PM1 Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	nTO1422438684
District RP	1RP-3231
Facility ID	
Application ID	pTO1422248834

### Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>78</u> (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 <b>not</b> 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

Page 3

- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 8/24/2021(2	State of New Mexico			Page 19 of 179
			Incident ID	nTO1422438684
Page 4	Oil Conservation Division		District RP	1RP-3231
			Facility ID	
			Application ID	pTO1422248834
regulations all operators are requ public health or the environment failed to adequately investigate a addition, OCD acceptance of a C and/or regulations. Printed Name: Marvin Soriw		tifications and perform co OCD does not relieve the reat to groundwater, surfa if responsibility for comp Title: Program Man	prrective actions for rele e operator of liability sh ice water, human health liance with any other fe ager, Risk Managem	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by:		Date:		

Received by OCD: 8/24/2021/2116:51 PM1 Form C-141 State of New Mexico

Oil Conservation Division

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

	Page 20 of 17	9
Incident ID	nTO1422438684	
District RP	1RP-3231	
Facility ID		
Application ID	pTO1422248834	

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### **Remediation Plan**

<ul> <li>Detailed description of proposed remediation technique</li> <li>Scaled sitemap with GPS coordinates showing delineation point</li> <li>Estimated volume of material to be remediated</li> <li>Closure criteria is to Table 1 specifications subject to 19.15.29.1</li> <li>Proposed schedule for remediation (note if remediation plan time)</li> </ul>	2(C)(4) NMAC
<b>Deferral Requests Only:</b> Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around pr deconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	h, the environment, or groundwater.
rules and regulations all operators are required to report and/or file of which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD responsibility for compliance with any other federal, state, or local 1 Printed Name: Marvin Soriwei	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Signature:	Date: 11/24/2020
email: <u>marvin.soriwei@conocophillips.com</u>	Telephone: <u>8324862730</u>
OCD Only	
Received by:	Date:
Approved Approved with Attached Conditions of	Approval Denied Deferral Approved
Signature: Bradford Billings	Date: 02/15/2021

Variance request for maximum 500 sq.ft. for confirmation sampling is approved.

Page 6

Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

### Closure

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

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following a	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certaid may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the OP Printed Name	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete. Title:
Signature:	Date:
Signature:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Bradford Billings Closure Approved by:	Date:
Printed Name:	Title:

## APPENDIX B Site Characterization Data



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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 612085.678

Northing (Y): 3630508.914

Radius: 800

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



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

Record Count: 8	<u>s Search (ir</u>	<u>1 meters</u>	) <u>:</u>											
											Maximum Dej	oth:	81 feet	t
											Minimum De	pth:	75 feet	t
										Avera	ge Depth to Wat	er:	78 feet	t
<u>RA 12721 POD2</u>		RA	LE	1	1 4	4 28	17S	32E	615055	3630407 🥥	2972	124	75	49
<u>RA 12522 POD3</u>		RA	LE	4	4	3 28	17S	32E	614980	3631093 🥌	2953	100		
<u>RA 12522 POD2</u>		RA	LE	2	2	1 28	17S	32E	614949	3631098 🥌	2923	100		
<u>RA 12522 POD1</u>		RA	LE	3	3	4 21	17S	32E	614941	3631122 🥌	2919	100		
<u>RA 12042 POD1</u>		RA	LE	2	2	1 28	17S	32E	614891	3631181 🥌	2884	400		
<u>RA 12020 POD1</u>		RA	LE	2	2	1 28	17S	32E	614828	3630954 🥌	2778	120	81	39
<u>RA 10175</u>		RA	LE		2	1 28	17S	32E	614814	3631005* 🥌	2773	158		
POD Number RA 12721 POD1	Code	basin RA	County LE		16 4 2 3			<b>Rng</b> 32E	<b>X</b> 614645	Y 3630141 🦲	DistanceDep 2587	othWellDept 125	hWater Co	lumn
		POD Sub-		Q	Q	2							W	ater
POD has been replaced & no longer serves a water right file.)	O=orpha C=the fil closed)	e is						V 2=NE est to lar	3=SW 4=SH egest) (N	E) JAD83 UTM in n	neters)	(In fe	eet)	

8/11/20 12:06 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



## MCA 1-A Header Release



6/30/2021, 10:03:35 AM



OSE Water-bodies



OSE Streams Released to Imaging: 8/30/2021 11:23:11 AM



New Mexico Oil Conservation Division NM OCD Oil and Gas Map. http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=4d017f2306164de29fd2fb9f8f35ca75: New Mexico Oil Conservation Division

## APPENDIX C Laboratory Analytical Data



June 22, 2021

Sam Abbott Tetra Tech, Inc 8911 N Capital of Texas Hwy #2310 Austin, TX 78759

RE: Project: MCA 1-A HEADER Pace Project No.: 60372652

Dear Sam Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on June 18, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

This Wood

Nolie Wood nolie.wood@pacelabs.com 1(913)563-1401 Project Manager

Enclosures

cc: John Thurston, Tetra Tech-Houston TX



### **REPORT OF LABORATORY ANALYSIS**

Received by OCD: 8/24/2021 2:16:51 PM Pace Analytical<sup>®</sup> www.pacelabs.com

### CERTIFICATIONS

Project: MCA 1-A HEADER

Pace Project No.: 60372652

#### Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Missouri Inorganic Drinking Water Certification #: 10090 Arkansas Drinking Water Arkansas Certification #: 20-020-0 Arkansas Drinking Water Illinois Certification #: 200030 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212020-2 Oklahoma Certification #: 9205/9935 Florida: Cert E871149 SEKS WET Texas Certification #: T104704407-19-12 Utah Certification #: KS000212019-9 Illinois Certification #: 004592 Kansas Field Laboratory Accreditation: # E-92587 Missouri SEKS Micro Certification: 10070

### **REPORT OF LABORATORY ANALYSIS**



### SAMPLE SUMMARY

### Project: MCA 1-A HEADER

Pace Project No.: 60372652

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60372652001	NSW-1	Solid	06/16/21 10:15	06/18/21 08:20
60372652002	SSW-1	Solid	06/16/21 10:20	06/18/21 08:20
60372652003	ESW-1	Solid	06/16/21 10:25	06/18/21 08:20
60372652004	ESW-2	Solid	06/16/21 10:30	06/18/21 08:20
60372652005	ESW-3	Solid	06/16/21 10:35	06/18/21 08:20
60372652006	ESW-4	Solid	06/16/21 10:40	06/18/21 08:20
60372652007	ESW-5	Solid	06/16/21 10:45	06/18/21 08:20
60372652008	ESW-6	Solid	06/16/21 10:50	06/18/21 08:20
60372652009	WSW-1	Solid	06/16/21 10:55	06/18/21 08:20
60372652010	WSW-2	Solid	06/16/21 11:00	06/18/21 08:20
60372652011	WSW-3	Solid	06/16/21 12:30	06/18/21 08:20
60372652012	WSW-4	Solid	06/16/21 12:35	06/18/21 08:20
60372652013	WSW-5	Solid	06/16/21 12:40	06/18/21 08:20

### **REPORT OF LABORATORY ANALYSIS**



### SAMPLE ANALYTE COUNT

Project: MCA 1-A HEADER

Pace Project No.: 60372652

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60372652001	NSW-1	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60372652002	SSW-1	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60372652003	ESW-1	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
0372652004	ESW-2	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60372652005	ESW-3	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60372652006	ESW-4	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60372652007	ESW-5	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60372652008	ESW-6	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K

### **REPORT OF LABORATORY ANALYSIS**



### SAMPLE ANALYTE COUNT

Project: MCA 1-A HEADER Pace Project No.: 60372652

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laborator
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60372652009	WSW-1	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60372652010	WSW-2	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
0372652011	WSW-3	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60372652012	WSW-4	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
0372652013	WSW-5	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K

### **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADER

Pace Project No.: 60372652

Sample: NSW-1	Lab ID: 603	72652001	Collected: 06/16/2	21 10:15	5 Received: 06	/18/21 08:20 N	latrix: Solid	
Results reported on a "dry weight"	basis and are adj	usted for pe	rcent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
015B Diesel Range Organics	Analytical Meth	nod: EPA 801	5B Preparation Me	ethod: E	PA 3546			
	Pace Analytica	I Services - K	ansas City					
PH-DRO (C10-C28)	ND	mg/kg	15.2	1	06/18/21 13:39	06/20/21 16:16		
PH-ORO (C28-C35)	ND	mg/kg	15.2	1	06/18/21 13:39	06/20/21 16:16		
Surrogates	07	%	21 150	1	06/19/01 12:20	06/20/21 16:16	646 21 1	
n-Tetracosane (S) p-Terphenyl (S)	97 109	%	31-152 46-130	1		06/20/21 16:16 06/20/21 16:16		
	100	70	40 100	ļ	00/10/21 10:00	00/20/21 10.10	52 54 4	
Basoline Range Organics			5B Preparation Me	ethod: E	PA 5035A/5030B			
	Pace Analytica	I Services - K	ansas City					
TPH-GRO	ND	mg/kg	9.7	1	06/21/21 22:17	06/22/21 12:49		
Surrogates								
-Bromofluorobenzene (S)	97	%	63-121	1	06/21/21 22:17	06/22/21 12:49	460-00-4	
8260 MSV 5035A VOA	Analytical Meth	nod: EPA 826	0B Preparation Me	thod: E	PA 5035A/5030			
	Pace Analytica	I Services - K	ansas City					
Benzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 20:57	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 20:57	100-41-4	
Toluene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 20:57	108-88-3	
(ylene (Total)	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 20:57	1330-20-7	
Surrogates	99	%	80-120	1	06/18/01 10:00	06/18/21 20:57	2027 26 F	
Foluene-d8 (S) I-Bromofluorobenzene (S)	99 105	%	80-120 80-120	1		06/18/21 20:57		
,2-Dichlorobenzene-d4 (S)	105	%	80-120	1		06/18/21 20:57		
	-				00,10,21 10.22	00,10,21 20.01	2100 00 1	
Percent Moisture	Analytical Meth							
	Pace Analytica	I Services - K	ansas City					
Percent Moisture	1.5	%	0.50	1		06/18/21 13:54		
0056 IC Anions	Analytical Meth	nod: EPA 905	6 Preparation Met	nod: EP	PA 9056			
	Pace Analytica	l Services - K	ansas City					
Chloride	ND	mg/kg	102	10	06/18/21 08:26	06/18/21 20:36	16887-00-6	

 Sample:
 SSW-1
 Lab ID: 60372652002
 Collected:
 06/16/21 10:20
 Received:
 06/18/21 08:20
 Matrix:
 Solid

 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Matrix:
 Solid

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Metl	hod: EPA 801	5B Preparation Me	thod: E	EPA 3546			
	Pace Analytica	al Services - K	ansas City					
TPH-DRO (C10-C28)	ND	mg/kg	10.0	1	06/18/21 13:39	06/20/21 16:41		
TPH-ORO (C28-C35)	ND	mg/kg	10.0	1	06/18/21 13:39	06/20/21 16:41		
Surrogates								
n-Tetracosane (S)	82	%	31-152	1	06/18/21 13:39	06/20/21 16:41	646-31-1	
p-Terphenyl (S)	91	%	46-130	1	06/18/21 13:39	06/20/21 16:41	92-94-4	

### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



Project: MCA 1-A HEADER

Pace Project No.: 60372652

Sample: SSW-1	Lab ID: 603		Collected: 06/16/2				latrix: Solid	
Results reported on a "dry weight Parameters	t" basis and are adj Results	<b>usted for per</b> Units	<b>cent moisture, sa</b> Report Limit	mple s DF	<i>ize and any dilut</i> Prepared	t <b>ions.</b> Analyzed	CAS No.	Qua
Cacalina Banga Organias		od: EDA 9015	B Preparation Me	thod: E	DA 50354/5030B			
Gasoline Range Organics	Pace Analytica		•	inou. L	FA 3033A/3030D			
TPH-GRO	ND	mg/kg	10.2	1	06/21/21 22:17	06/22/21 13:10		
Surrogates	96	%	63-121	1	06/21/21 22:17	06/22/21 12:10	460.00.4	
1-Bromofluorobenzene (S)				1		06/22/21 13:10	400-00-4	
3260 MSV 5035A VOA	Analytical Meth Pace Analytica		B Preparation Me ansas City	thod: E	PA 5035A/5030			
Benzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 21:45	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 21:45	100-41-4	
Toluene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 21:45	108-88-3	
Kylene (Total)	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 21:45	1330-20-7	
Surrogates		0/	00.400					
Toluene-d8 (S)	99	%	80-120	1		06/18/21 21:45		
4-Bromofluorobenzene (S)	101	%	80-120	1		06/18/21 21:45		
,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	06/18/21 19:22	06/18/21 21:45	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM D2	974					
	Pace Analytica	l Services - Ka	ansas City					
Percent Moisture	1.6	%	0.50	1		06/18/21 13:54		
0056 IC Anions	Analytical Meth	nod: EPA 9056	Preparation Meth	nod: EP	A 9056			
	Pace Analytica	l Services - Ka	ansas City					
Chloride	ND	mg/kg	102	10	06/18/21 08:26	06/18/21 21:28	16887-00-6	
		70050000		4 40 05	Descional 00	140/04 00 00		
Sample: ESW-1 Res <i>ults reported on a "dry weigh</i> t	Lab ID: 603 t" basis and are adj		Collected: 06/16/2 cent moisture, sa				latrix: Solid	
Parameters	Results	-		•	-			
i ulullotois	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
						Analyzed	CAS No.	Qual
		nod: EPA 8015	B Preparation Me			Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Meth	nod: EPA 8015	B Preparation Me		PA 3546	Analyzed 06/20/21 16:49	CAS No.	Qua
0015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Analytical Meth Pace Analytica	nod: EPA 8015 I Services - Ka	B Preparation Me ansas City	thod: E	PA 3546 06/18/21 13:39		CAS No.	Qua
<b>3015B Diesel Range Organics</b> IPH-DRO (C10-C28) IPH-ORO (C28-C35) <b>Surrogates</b>	Analytical Meth Pace Analytica 193 161	nod: EPA 8015 I Services - Ka mg/kg mg/kg	B Preparation Me ansas City 9.7 9.7	ethod: E 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39	06/20/21 16:49 06/20/21 16:49		Qua
2015B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates h-Tetracosane (S)	Analytical Meth Pace Analytica 193 161 88	nod: EPA 8015 I Services - Ka mg/kg mg/kg %	B Preparation Me ansas City 9.7 9.7 31-152	ethod: E 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	06/20/21 16:49 06/20/21 16:49 06/20/21 16:49	646-31-1	Qua
DISB Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S)	Analytical Meth Pace Analytica 193 161	nod: EPA 8015 I Services - Ka mg/kg mg/kg	B Preparation Me ansas City 9.7 9.7	ethod: E 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	06/20/21 16:49 06/20/21 16:49	646-31-1	Qua
<b>3015B Diesel Range Organics</b> IPH-DRO (C10-C28) IPH-ORO (C28-C35) <b>Surrogates</b> n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica 193 161 88 95 Analytical Meth	nod: EPA 8015 I Services - Ka mg/kg mg/kg % % nod: EPA 8015	B Preparation Me ansas City 9.7 9.7 31-152 46-130 B Preparation Me	ethod: E 1 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	06/20/21 16:49 06/20/21 16:49 06/20/21 16:49 06/20/21 16:49	646-31-1	Qua
<b>B015B Diesel Range Organics</b> TPH-DRO (C10-C28) TPH-ORO (C28-C35) <b>Surrogates</b> 1-Tetracosane (S) 5-Terphenyl (S) <b>Gasoline Range Organics</b> TPH-GRO	Analytical Meth Pace Analytica 193 161 88 95	nod: EPA 8015 I Services - Ka mg/kg mg/kg % % nod: EPA 8015	B Preparation Me ansas City 9.7 9.7 31-152 46-130 B Preparation Me	ethod: E 1 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B	06/20/21 16:49 06/20/21 16:49 06/20/21 16:49 06/20/21 16:49	646-31-1	Qua
Bolise I Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica 193 161 88 95 Analytical Meth Pace Analytica	nod: EPA 8015 I Services - Ka mg/kg mg/kg % nod: EPA 8015 I Services - Ka	B Preparation Me ansas City 9.7 9.7 31-152 46-130 B Preparation Me ansas City	thod: E 1 1 1 1 thod: E	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17	06/20/21 16:49 06/20/21 16:49 06/20/21 16:49 06/20/21 16:49	646-31-1 92-94-4	Qua

### **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADER

Pace Project No.: 60372652

Sample: ESW-1	Lab ID: 603		Collected: 06/16/2				latrix: Solid	
Results reported on a "dry weight	t" basis and are ad	justed for p	ercent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Met	hod: EPA 82	60B Preparation Me	thod: E	PA 5035A/5030			
	Pace Analytica							
Benzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 22:01	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 22:01	100-41-4	
Toluene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 22:01	108-88-3	
Xylene (Total)	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 22:01	1330-20-7	
Surrogates								
Toluene-d8 (S)	102	%	80-120	1		06/18/21 22:01		
4-Bromofluorobenzene (S)	109	%	80-120	1		06/18/21 22:01		
1,2-Dichlorobenzene-d4 (S)	100	%	80-120	1	06/18/21 19:22	06/18/21 22:01	2199-69-1	
Percent Moisture	Analytical Met	hod: ASTM I	D2974					
	Pace Analytica	al Services -	Kansas City					
Percent Moisture	0.64	%	0.50	1		06/18/21 13:54		
9056 IC Anions	Analytical Met	hod: EPA 90	56 Preparation Meth	nod: EP	A 9056			
	Pace Analytica	al Services -	Kansas City					
	,	~~~//~~	101	10	06/19/01 09:06	06/18/21 22:02	16997 00 6	
Chloride	ND)				00/10/21 00:20	00/10/21 22:02		
Chloride	ND	mg/kg	101					
						// . /		
Sample: ESW-2	Lab ID: 603	72652004	Collected: 06/16/2				latrix: Solid	
Sample: ESW-2 Results reported on a "dry weight	Lab ID: 603 t" basis and are ad	72652004 justed for p	Collected: 06/16/2 ercent moisture, sa	mple s	ize and any dilut	tions.		
Sample: ESW-2	Lab ID: 603	72652004	Collected: 06/16/2				fatrix: Solid CAS No.	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters	Lab ID: 603 t" basis and are ad Results	72652004 justed for p Units	Collected: 06/16/2 ercent moisture, sa Report Limit	DF	ize and any dilut	tions.		Qual
Sample: ESW-2 Results reported on a "dry weight Parameters	Lab ID: 603 t" basis and are ad Results	72652004 justed for p Units hod: EPA 80	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me	DF	ize and any dilut	tions.		Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica	72652004 justed for p Units hod: EPA 80 al Services -	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City	DF thod: E	ize and any dilut Prepared PA 3546	hions. Analyzed		Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28)	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND	72652004 justed for p Units hod: EPA 80 al Services - mg/kg	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1	DF DF thod: E	<i>ize and any dilut</i> Prepared PA 3546 06/18/21 13:39	Analyzed		Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica	72652004 justed for p Units hod: EPA 80 al Services -	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City	DF thod: E	<i>ize and any dilut</i> Prepared PA 3546 06/18/21 13:39	hions. Analyzed		Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND	72652004 justed for p Units hod: EPA 80 al Services - mg/kg mg/kg	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1	DF DF thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39	Analyzed	CAS No.	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7	72652004 justed for p Units hod: EPA 80 al Services - mg/kg	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.1	mple s DF thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	Analyzed 06/20/21 17:05 06/20/21 17:05	CAS No. 646-31-1	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97	72652004 justed for p Units hod: EPA 80 al Services - mg/kg mg/kg % %	Collected: 06/16/2 Percent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.1 31-152 46-130	mple s DF thod: E 1 1 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	Analyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05	CAS No. 646-31-1	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97 Analytical Met	72652004 justed for p Units hod: EPA 80 al Services - mg/kg mg/kg % % %	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.1 31-152 46-130 115B Preparation Me	mple s DF thod: E 1 1 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	Analyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05	CAS No. 646-31-1	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97 Analytical Met Pace Analytica	72652004 justed for p Units hod: EPA 80 al Services - mg/kg mg/kg % % hod: EPA 80 al Services -	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.1 31-152 46-130 115B Preparation Me Kansas City	mple s DF thod: E 1 1 1 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B	06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05	CAS No. 646-31-1	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97 Analytical Met	72652004 justed for p Units hod: EPA 80 al Services - mg/kg mg/kg % % %	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.1 31-152 46-130 115B Preparation Me	mple s DF thod: E 1 1 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B	Analyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05	CAS No. 646-31-1	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates	Lab ID: 603 t" basis and are ad Results Analytical Meti Pace Analytica ND 18.7 88 97 Analytical Meti Pace Analytica ND	72652004 justed for p Units hod: EPA 80 al Services - mg/kg % % hod: EPA 80 al Services - mg/kg	Collected: 06/16/2 Percent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.1 10.1 31-152 46-130 115B Preparation Me Kansas City 10.0	mple s DF thod: E 1 1 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17	Analyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05	CAS No. 646-31-1 92-94-4	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97 Analytical Met Pace Analytica ND 96	72652004 justed for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg %	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.1 31-152 46-130 115B Preparation Me Kansas City 10.0 63-121	mple s DF thod: E 1 1 1 thod: E 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17	06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05	CAS No. 646-31-1 92-94-4	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Lab ID: 603 t" basis and are adj Results Analytical Meti Pace Analytica ND 18.7 88 97 Analytical Meti Pace Analytica ND 96 Analytical Meti	72652004 justed for p Units hod: EPA 80 al Services - mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.1 31-152 46-130 115B Preparation Me Kansas City 10.0 63-121	mple s DF thod: E 1 1 1 thod: E 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17	Analyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05	CAS No. 646-31-1 92-94-4	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97 Analytical Met Pace Analytica ND 96	72652004 justed for p Units hod: EPA 80 al Services - mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.1 31-152 46-130 115B Preparation Me Kansas City 10.0 63-121	mple s DF thod: E 1 1 1 thod: E 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17	Analyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05	CAS No. 646-31-1 92-94-4	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97 Analytical Met Pace Analytica ND 96 Analytical Met Pace Analytical	72652004 justed for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services -	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.0 63-121 260B Preparation Me Kansas City	mple s DF thod: E 1 1 1 thod: E 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 PA 5035A/5030	Analyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 13:53 06/22/21 13:53	CAS No. 646-31-1 92-94-4 460-00-4	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97 Analytical Met Pace Analytica ND 96 Analytical Met Pace Analytica ND	72652004 justed for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services - ug/kg	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.0 63-121 260B Preparation Me Kansas City 10.0 5.1	mple s DF thod: E 1 1 thod: E 1 thod: E 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22	66/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/22/21 13:53 06/22/21 13:53 06/22/21 13:53	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97 Analytical Met Pace Analytica ND 96 Analytical Met Pace Analytica ND 96 ND	72652004 justed for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services - ug/kg ug/kg	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.0 63-121 260B Preparation Me Kansas City 5.1 5.1	mple s DF thod: E 1 1 thod: E 1 thod: E 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22	Malyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/22/21 13:53 06/22/21 13:53 06/22/21 13:53	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene	Lab ID: 603 t" basis and are adj Results Analytical Meti Pace Analytica ND 18.7 88 97 Analytical Meti Pace Analytical ND 96 Analytical Meti Pace Analytical ND ND ND ND	72652004 justed for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services - ug/kg ug/kg ug/kg ug/kg	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.0 63-121 260B Preparation Me Kansas City 5.1 5.1 5.1	mple s DF thod: E 1 1 1 thod: E 1 thod: E 1 1 1 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	Analyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/22/21 13:53 06/22/21 13:53 06/22/21 13:53	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qual
Sample: ESW-2 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Lab ID: 603 t" basis and are ad Results Analytical Met Pace Analytica ND 18.7 88 97 Analytical Met Pace Analytica ND 96 Analytical Met Pace Analytica ND 96 ND	72652004 justed for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services - ug/kg ug/kg	Collected: 06/16/2 ercent moisture, sa Report Limit 115B Preparation Me Kansas City 10.1 10.0 63-121 260B Preparation Me Kansas City 5.1 5.1	mple s DF thod: E 1 1 thod: E 1 thod: E 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	Malyzed 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/20/21 17:05 06/22/21 13:53 06/22/21 13:53 06/22/21 13:53	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qual

### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



Project: MCA 1-A HEADER

Pace Project No.: 60372652

Sample: ESW-2	Lab ID: 603	72652004	Collected: 06/16/2	21 10:30	) Received: 06	/18/21 08:20 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	usted for pe	ercent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Meth Pace Analytica		60B Preparation Me Kansas City	ethod: E	PA 5035A/5030			
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		06/18/21 22:17		
1,2-Dichlorobenzene-d4 (S)	102	%	80-120	1	06/18/21 19:22	06/18/21 22:17	2199-69-1	
Percent Moisture	Analytical Meth Pace Analytica							
Percent Moisture	2.4	%	0.50	1		06/18/21 13:54		
9056 IC Anions	Analytical Meth Pace Analytica		56 Preparation Meth Kansas City	nod: EP	A 9056			
Chloride	ND	mg/kg	102	10	06/18/21 08:26	06/18/21 22:20	16887-00-6	
Sample: ESW-3	Lab ID: 603	72652005	Collected: 06/16/2	21 10:35	5 Received: 06	/18/21 08:20 N	latrix: Solid	
Results reported on a "dry weight								
	-	•		•	-			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
		nod: EPA 801	15B Preparation Me			Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Meth	nod: EPA 801 I Services - I	15B Preparation Me Kansas City		PA 3546		CAS No.	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28)	Analytical Meth Pace Analytica	nod: EPA 801	15B Preparation Me	ethod: E	PA 3546 06/18/21 13:39	Analyzed 06/20/21 17:13 06/20/21 17:13	CAS No.	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Analytical Meth Pace Analytica ND ND	nod: EPA 801 I Services - I mg/kg mg/kg	15B Preparation Me Kansas City 9.8 9.8	ethod: E 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39	06/20/21 17:13 06/20/21 17:13		Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S)	Analytical Meth Pace Analytica ND ND 82	nod: EPA 801 I Services - I mg/kg mg/kg %	15B Preparation Me Kansas City 9.8 9.8 31-152	ethod: E 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13	646-31-1	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S)	Analytical Meth Pace Analytica ND ND	nod: EPA 801 I Services - I mg/kg mg/kg	15B Preparation Me Kansas City 9.8 9.8	ethod: E 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	06/20/21 17:13 06/20/21 17:13	646-31-1	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica ND ND 82 89	nod: EPA 801 I Services - I mg/kg mg/kg % %	15B Preparation Me Kansas City 9.8 9.8 31-152	ethod: E 1 1 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13	646-31-1	Qual
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics	Analytical Meth Pace Analytica ND ND 82 89	nod: EPA 801 I Services - I mg/kg mg/kg % %	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me	ethod: E 1 1 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13	646-31-1	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics	Analytical Meth Pace Analytica ND ND 82 89 Analytical Meth	nod: EPA 801 I Services - I mg/kg mg/kg % %	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me	ethod: E 1 1 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13	646-31-1	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates	Analytical Meth Pace Analytica ND ND 82 89 Analytical Meth Pace Analytica	nod: EPA 801 I Services - I mg/kg mg/kg % nod: EPA 801 I Services - I	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me Kansas City	ethod: E 1 1 1 1 ethod: E	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13	646-31-1 92-94-4	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica ND ND 82 89 Analytical Meth Pace Analytica ND 97 Analytical Meth	nod: EPA 801 I Services - I mg/kg % nod: EPA 801 I Services - I mg/kg %	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me Kansas City 9.3 63-121 50B Preparation Me	ethod: E 1 1 1 ethod: E 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13	646-31-1 92-94-4	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA	Analytical Meth Pace Analytica ND 82 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytica	nod: EPA 801 I Services - I mg/kg % nod: EPA 801 I Services - I mg/kg % nod: EPA 826 I Services - I	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me Kansas City 9.3 63-121 50B Preparation Me Kansas City	ethod: E 1 1 1 ethod: E 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13	646-31-1 92-94-4 460-00-4	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene	Analytical Meth Pace Analytica ND 82 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytica ND	nod: EPA 801 I Services - I mg/kg % nod: EPA 801 I Services - I mg/kg % nod: EPA 826 I Services - I ug/kg	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me Kansas City 9.3 63-121 50B Preparation Me Kansas City 5.0	ethod: E 1 1 1 ethod: E 1 ethod: E 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/22/21 14:15 06/22/21 14:15	646-31-1 92-94-4 460-00-4 71-43-2	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene	Analytical Meth Pace Analytica ND ND 82 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytica ND ND ND	nod: EPA 801 I Services - I mg/kg mg/kg % nod: EPA 801 I Services - I mg/kg % nod: EPA 826 I Services - I ug/kg ug/kg	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me Kansas City 9.3 63-121 50B Preparation Me Kansas City 5.0 5.0 5.0	ethod: E 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/22/21 14:15 06/22/21 14:15 06/22/21 14:15	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qua
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene	Analytical Meth Pace Analytica ND ND 82 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytica ND ND ND ND	nod: EPA 801 I Services - I mg/kg mg/kg % nod: EPA 801 I Services - I mg/kg % nod: EPA 826 I Services - I ug/kg ug/kg ug/kg ug/kg	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me Kansas City 9.3 63-121 50B Preparation Me Kansas City 5.0 5.0 5.0 5.0	ethod: E 1 1 1 1 ethod: E 1 1 ethod: E 1 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/22/21 14:15 06/22/21 14:15 06/22/21 14:15	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene Xylene (Total)	Analytical Meth Pace Analytica ND ND 82 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytica ND ND ND	nod: EPA 801 I Services - I mg/kg mg/kg % nod: EPA 801 I Services - I mg/kg % nod: EPA 826 I Services - I ug/kg ug/kg	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me Kansas City 9.3 63-121 50B Preparation Me Kansas City 5.0 5.0 5.0	ethod: E 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/22/21 14:15 06/22/21 14:15 06/22/21 14:15	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene Xylene (Total) Surrogates	Analytical Meth Pace Analytica ND ND 82 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytica ND ND ND ND ND	nod: EPA 801 I Services - I mg/kg mg/kg % nod: EPA 801 I Services - I mg/kg % nod: EPA 826 I Services - I ug/kg ug/kg ug/kg ug/kg ug/kg	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me Kansas City 9.3 63-121 50B Preparation Me Kansas City 5.0 5.0 5.0 5.0 5.0	ethod: E 1 1 1 1 ethod: E 1 1 1 1 1 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/22/21 14:15 06/22/21 14:15 06/22/21 14:15 06/18/21 22:33 06/18/21 22:33 06/18/21 22:33	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qua
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica ND ND 82 89 Analytical Meth Pace Analytica ND 97 Analytical Meth Pace Analytica ND ND ND ND	nod: EPA 801 I Services - I mg/kg mg/kg % nod: EPA 801 I Services - I mg/kg % nod: EPA 826 I Services - I ug/kg ug/kg ug/kg ug/kg	15B Preparation Me Kansas City 9.8 9.8 31-152 46-130 15B Preparation Me Kansas City 9.3 63-121 50B Preparation Me Kansas City 5.0 5.0 5.0 5.0	ethod: E 1 1 1 1 ethod: E 1 1 ethod: E 1 1 1 1	PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/20/21 17:13 06/22/21 14:15 06/22/21 14:15 06/22/21 14:15	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qual

### **REPORT OF LABORATORY ANALYSIS**


Project: MCA 1-A HEADER Pace Project No .: 60372652 Sample: ESW-3 Lab ID: 60372652005 Collected: 06/16/21 10:35 Received: 06/18/21 08:20 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual Analytical Method: ASTM D2974 **Percent Moisture** Pace Analytical Services - Kansas City Percent Moisture 2.2 % 0.50 1 06/18/21 13:54 9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City Chloride ND 102 06/18/21 08:26 06/18/21 23:12 16887-00-6 mg/kg 10 Received: 06/18/21 08:20 Sample: ESW-4 Lab ID: 60372652006 Collected: 06/16/21 10:40 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual Analytical Method: EPA 8015B Preparation Method: EPA 3546 8015B Diesel Range Organics Pace Analytical Services - Kansas City **TPH-DRO (C10-C28)** ND mg/kg 10 1 06/18/21 13:39 06/20/21 17:21 **TPH-ORO** (C28-C35) ND 06/18/21 13:39 06/20/21 17:21 mg/kg 10 1 Surrogates n-Tetracosane (S) 92 % 31-152 1 06/18/21 13:39 06/20/21 17:21 646-31-1 p-Terphenyl (S) 102 % 46-130 1 06/18/21 13:39 06/20/21 17:21 92-94-4 **Gasoline Range Organics** Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City **TPH-GRO** ND mg/kg 9.7 1 06/21/21 22:17 06/22/21 14:36 Surrogates 4-Bromofluorobenzene (S) 99 % 63-121 1 06/21/21 22:17 06/22/21 14:36 460-00-4 Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 8260 MSV 5035A VOA Pace Analytical Services - Kansas City ND Benzene ug/kg 4.9 1 06/18/21 19:22 06/18/21 22:49 71-43-2 Ethylbenzene ND ug/kg 4.9 06/18/21 19:22 06/18/21 22:49 100-41-4 1 Toluene ND ug/kg 4.9 1 06/18/21 19:22 06/18/21 22:49 108-88-3 Xylene (Total) ND 4.9 06/18/21 19:22 06/18/21 22:49 1330-20-7 ug/kg 1 Surrogates 98 % 06/18/21 19:22 06/18/21 22:49 2037-26-5 Toluene-d8 (S) 80-120 1 4-Bromofluorobenzene (S) 106 % 80-120 1 06/18/21 19:22 06/18/21 22:49 460-00-4 1,2-Dichlorobenzene-d4 (S) 100 % 80-120 1 06/18/21 19:22 06/18/21 22:49 2199-69-1 Analytical Method: ASTM D2974 **Percent Moisture** Pace Analytical Services - Kansas City Percent Moisture 0.65 0.50 1 % 06/18/21 13:54 Analytical Method: EPA 9056 Preparation Method: EPA 9056 9056 IC Anions Pace Analytical Services - Kansas City ND Chloride mg/kg 101 10 06/18/21 08:26 06/18/21 23:29 16887-00-6

### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



Project: MCA 1-A HEADER

Pace Project No.: 60372652

Sample: ESW-5	Lab ID: 603	72652007	Collected: 06/16/2	1 10:4	5 Received: 06	/18/21 08:20 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for pe	rcent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Met	nod: EPA 801	5B Preparation Me	thod: E	PA 3546			
	Pace Analytica	I Services - k	Kansas City					
TPH-DRO (C10-C28)	ND	mg/kg	10.1	1	06/18/21 13:39	06/20/21 17:29		
TPH-ORO (C28-C35)	ND	mg/kg	10.1	1	06/18/21 13:39	06/20/21 17:29		
Surrogates								
n-Tetracosane (S)	102	%	31-152	1		06/20/21 17:29		
p-Terphenyl (S)	111	%	46-130	1	06/18/21 13:39	06/20/21 17:29	92-94-4	
Gasoline Range Organics	Analytical Met	nod: EPA 801	5B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	I Services - k	Kansas City					
TPH-GRO	ND	mg/kg	8.8	1	06/21/21 22:17	06/22/21 14:58		
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	06/21/21 22:17	06/22/21 14:58	460-00-4	
8260 MSV 5035A VOA	Analytical Met	nod: EPA 826	0B Preparation Me	thod: E	PA 5035A/5030			
	Pace Analytica	I Services - k	Kansas City					
Benzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 23:05	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 23:05	100-41-4	
Toluene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 23:05	108-88-3	
Xylene (Total)	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 23:05	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80-120	1	06/18/21 19:22	06/18/21 23:05	2037-26-5	
4-Bromofluorobenzene (S)	103	%	80-120	1		06/18/21 23:05		
1,2-Dichlorobenzene-d4 (S)	104	%	80-120	1	06/18/21 19:22	06/18/21 23:05	2199-69-1	
Percent Moisture	Analytical Met	nod: ASTM D	2974					
	Pace Analytica	I Services - k	Kansas City					
Percent Moisture	1.6	%	0.50	1		06/18/21 13:54		
9056 IC Anions	Analytical Met	nod: EPA 905	6 Preparation Meth	nod: EF	PA 9056			
	Pace Analytica							
Chloride	ND	mg/kg	102	10	06/18/21 08:26	06/18/21 23:47	16887-00-6	
Sample: ESW-6	Lab ID: 603	72652008	Collected: 06/16/2	1 10:5	0 Received: 06	/18/21 08:20 N	latrix: Solid	

. Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Met	hod: EPA 801	5B Preparation Me	ethod: E	PA 3546			
	Pace Analytica	al Services - K	ansas City					
TPH-DRO (C10-C28)	ND	mg/kg	9.9	1	06/18/21 13:39	06/20/21 17:37		
TPH-ORO (C28-C35)	ND	mg/kg	9.9	1	06/18/21 13:39	06/20/21 17:37		
Surrogates								
n-Tetracosane (S)	90	%	31-152	1	06/18/21 13:39	06/20/21 17:37	646-31-1	
p-Terphenyl (S)	98	%	46-130	1	06/18/21 13:39	06/20/21 17:37	92-94-4	

# **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



Project: MCA 1-A HEADER

Pace Project No.: 60372652

Sample: ESW-6	Lab ID: 603	72652008	Collected: 06/16/2	1 10:50	) Received: 06	/18/21 08:20 N	latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for per	rcent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Basoline Range Organics	Analytical Mether	10d: EPA 801;	5B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	I Services - K	ansas City					
IPH-GRO	ND	mg/kg	9.5	1	06/21/21 22:17	06/22/21 15:19		
Surrogates								
1-Bromofluorobenzene (S)	98	%	63-121	1	06/21/21 22:17	06/22/21 15:19	460-00-4	
3260 MSV 5035A VOA	Analytical Meth	nod: EPA 8260	0B Preparation Me	thod: E	PA 5035A/5030			
	Pace Analytica	I Services - K	ansas City					
Benzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/18/21 23:21	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1		06/18/21 23:21		
Foluene	ND	ug/kg	5.0	1		06/18/21 23:21		
Kylene (Total)	ND	ug/kg	5.0	1		06/18/21 23:21		
Surrogates	ND	ug/kg	5.0		00/10/21 10.22	00/10/21 20.21	1000 20 7	
Foluene-d8 (S)	99	%	80-120	1	06/18/21 19:22	06/18/21 23:21	2037-26-5	
4-Bromofluorobenzene (S)	104	%	80-120	1		06/18/21 23:21		
,2-Dichlorobenzene-d4 (S)	100	%	80-120	1		06/18/21 23:21		
				-				
Percent Moisture	Analytical Meth							
	Pace Analytica	I Services - K	ansas City					
Percent Moisture	0.82	%	0.50	1		06/18/21 13:54		
0056 IC Anions	Analytical Mether	nod: EPA 9056	6 Preparation Meth	nod: EP	A 9056			
	Pace Analytica	I Services - K	ansas City					
Chloride	ND	mg/kg	101	10	06/18/21 08:26	06/19/21 00:04	16887-00-6	
		0 0						
Sample: WSW-1	Lab ID: 603	72652009	Collected: 06/16/2	1 10:55	5 Received: 06	/18/21 08:20 N	latrix: Solid	
•	Lab ID: 603 t" basis and are adj		Collected: 06/16/2 rcent moisture, sa				latrix: Solid	
•							fatrix: Solid CAS No.	Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results	iusted for per Units	rcent moisture, sa Report Limit	mple s DF	ize and any dilut	tions.		Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results Analytical Meth	Units	rcent moisture, sa Report Limit 5B Preparation Me	mple s DF	ize and any dilut	tions.		Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results	Units	rcent moisture, sa Report Limit 5B Preparation Me	mple s DF	ize and any dilut	tions.		Qua
Results reported on a "dry weight Parameters 015B Diesel Range Organics	t" basis and are adj Results Analytical Meth	Units	rcent moisture, sa Report Limit 5B Preparation Me	mple s DF	ize and any diluter Prepared PA 3546	tions.		Qua
Parameters 015B Diesel Range Organics PH-DRO (C10-C28)	t" basis and are adj Results Analytical Meth Pace Analytica	Units Units nod: EPA 8015 Il Services - K	Report Limit         5B       Preparation Me         Cansas City	DF DF thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39	tions. Analyzed		Qua
Results reported on a "dry weight Parameters 015B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35)	t" basis and are adj Results Analytical Meth Pace Analytica ND	usted for per Units nod: EPA 8015 Il Services - K mg/kg	Report Limit 5B Preparation Me Cansas City 10.3	DF DF thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39	tions. Analyzed 06/20/21 17:45		Qua
Results reported on a "dry weight Parameters 015B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates	t" basis and are adj Results Analytical Meth Pace Analytica ND	usted for per Units nod: EPA 8015 Il Services - K mg/kg	Report Limit 5B Preparation Me Cansas City 10.3	DF DF thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39	tions. Analyzed 06/20/21 17:45	CAS No.	Qua
Results reported on a "dry weight Parameters 015B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S)	t" basis and are adj Results Analytical Meth Pace Analytica ND ND	usted for per Units nod: EPA 8015 Il Services - K mg/kg mg/kg	5B Preparation Me Cansas City 10.3 10.3	omple s DF othod: E 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	tions. Analyzed 06/20/21 17:45 06/20/21 17:45	CAS No. 646-31-1	Qua
Results reported on a "dry weight Parameters CO15B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) D-Terphenyl (S)	t" basis and are adj Results Analytical Meth Pace Analytica ND ND 80 89	usted for per Units nod: EPA 8018 Il Services - K mg/kg mg/kg %	Report Limit 5B Preparation Me (ansas City 10.3 10.3 31-152 46-130	thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	tions. Analyzed 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45	CAS No. 646-31-1	Qua
Results reported on a "dry weight Parameters <b>3015B Diesel Range Organics</b> FPH-DRO (C10-C28) FPH-ORO (C28-C35) <b>Surrogates</b> h-Tetracosane (S) h-Terphenyl (S)	t" basis and are adj Results Analytical Meth Pace Analytica ND ND 80 89 Analytical Meth	units Units Hod: EPA 8015 Il Services - K mg/kg mg/kg % %	Report Limit 5B Preparation Me Cansas City 10.3 10.3 31-152 46-130 5B Preparation Me	thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	tions. Analyzed 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45	CAS No. 646-31-1	Qua
Results reported on a "dry weight Parameters BO15B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates h-Tetracosane (S) b-Terphenyl (S) Gasoline Range Organics	t" basis and are adj Results Analytical Meth Pace Analytica ND ND 80 89 Analytical Meth Pace Analytica	units Units Nod: EPA 8015 Il Services - K mg/kg mg/kg % % hod: EPA 8015 Il Services - K	Report Limit 5B Preparation Me Cansas City 10.3 10.3 31-152 46-130 5B Preparation Me Cansas City	thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B	tions. Analyzed 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45	CAS No. 646-31-1	Qua
Results reported on a "dry weight Parameters BO15B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S) Basoline Range Organics TPH-GRO	t" basis and are adj Results Analytical Meth Pace Analytica ND ND 80 89 Analytical Meth	units Units Hod: EPA 8015 Il Services - K mg/kg mg/kg % %	Report Limit 5B Preparation Me Cansas City 10.3 10.3 31-152 46-130 5B Preparation Me	thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B	tions. Analyzed 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45	CAS No. 646-31-1	Qua
Sample: WSW-1 Results reported on a "dry weight Parameters B015B Diesel Range Organics FPH-DRO (C10-C28) FPH-ORO (C28-C35) Surrogates 1-Tetracosane (S) 2-Terphenyl (S) Gasoline Range Organics FPH-GRO Surrogates 4-Bromofluorobenzene (S)	t" basis and are adj Results Analytical Meth Pace Analytica ND ND 80 89 Analytical Meth Pace Analytica	units Units Nod: EPA 8015 Il Services - K mg/kg mg/kg % % hod: EPA 8015 Il Services - K	Report Limit 5B Preparation Me Cansas City 10.3 10.3 31-152 46-130 5B Preparation Me Cansas City	thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17	tions. Analyzed 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45 06/20/21 17:45	CAS No. 646-31-1 92-94-4	Qua

# **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADER

Pace Project No.: 60372652

Sample: WSW-1	Lab ID: 603	12052009	Collected: 06/16/2	1 10:55	6 Received: 06	/18/21 08:20 N	latrix: Solid	
Results reported on a "dry weight	" basis and are ad	justed for p	ercent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Met	hod: EPA 82	60B Preparation Me	thod: E	PA 5035A/5030			
	Pace Analytica	al Services -	Kansas City					
Benzene	ND	ug/kg	5.2	1	06/19/21 14:12	06/19/21 15:53	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1	06/19/21 14:12	06/19/21 15:53	100-41-4	
Toluene	ND	ug/kg	5.2	1	06/19/21 14:12	06/19/21 15:53	108-88-3	
Xylene (Total)	ND	ug/kg	5.2	1	06/19/21 14:12	06/19/21 15:53	1330-20-7	
Surrogates								
Toluene-d8 (S)	96	%	80-120	1	06/19/21 14:12	06/19/21 15:53	2037-26-5	
4-Bromofluorobenzene (S)	101	%	80-120	1	06/19/21 14:12	06/19/21 15:53	460-00-4	
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	06/19/21 14:12	06/19/21 15:53	2199-69-1	
Percent Moisture	Analytical Met	hod: ASTM I	D2974					
	Pace Analytica	al Services -	Kansas City					
Percent Moisture	5.0	%	0.50	1		06/18/21 13:54		
9056 IC Anions	Analytical Met	hod: EPA 90	56 Preparation Meth	nod: EP	A 9056			
	Pace Analytica	al Services -	Kansas City					
Chloride	ND	mg/kg	105	10	06/18/21 08:26	06/19/21 00:21	16887-00-6	
					00,10,2100.20	00,10,2100121		
Sample: WSW-2	Lab ID: 603	72652010	Collected: 06/16/2	1 11:00	Received: 06	/18/21 08:20 N	latrix: Solid	
Sample: WSW-2 Results reported on a "dry weight							latrix: Solid	
•							latrix: Solid CAS No.	Qual
Results reported on a "dry weight Parameters	" basis and are ad, Results	<b>justed for p</b> Units	ercent moisture, sa Report Limit	DF	ize and any dilut	tions.		Qual
Results reported on a "dry weight	" basis and are ad Results Analytical Met	<i>justed for p</i> Units hod: EPA 80	Report Limit Report Limit 115B Preparation Me	DF	ize and any dilut	tions.		Qual
Results reported on a "dry weight Parameters	" basis and are ad, Results	<i>justed for p</i> Units hod: EPA 80	Report Limit Report Limit 115B Preparation Me	DF	ize and any dilut	tions.		Qual
Results reported on a "dry weight Parameters	" basis and are ad Results Analytical Met	<i>justed for p</i> Units hod: EPA 80	Report Limit Report Limit 115B Preparation Me	DF	ize and any dilut Prepared PA 3546	tions.		Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics	Results Analytical Met	iusted for p Units hod: EPA 80 al Services -	Percent moisture, sa Report Limit 115B Preparation Me Kansas City	DF DF thod: E	<i>ize and any dilut</i> Prepared PA 3546 06/18/21 13:39	Analyzed		Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28)	" basis and are ad Results Analytical Met Pace Analytica ND	iusted for p Units hod: EPA 80 al Services - mg/kg mg/kg	Percent moisture, sa Report Limit 115B Preparation Me Kansas City 9.6	DF DF thod: E	<i>ize and any dilut</i> Prepared PA 3546 06/18/21 13:39	Analyzed		Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	" basis and are ad Results Analytical Met Pace Analytica ND	iusted for p Units hod: EPA 80 al Services - mg/kg	Percent moisture, sa Report Limit 115B Preparation Me Kansas City 9.6	DF DF thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39	Analyzed	CAS No.	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	" basis and are ad Results Analytical Met Pace Analytica ND ND	iusted for p Units hod: EPA 80 al Services - mg/kg mg/kg	Percent moisture, sa Report Limit 115B Preparation Me Kansas City 9.6 9.6	DF DF ethod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	Analyzed 06/20/21 17:53 06/20/21 17:53	CAS No. 646-31-1	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	" basis and are ad Results Analytical Met Pace Analytica ND ND 92 99	iusted for p Units hod: EPA 80 al Services - mg/kg mg/kg % %	Percent moisture, sa Report Limit 115B Preparation Me Kansas City 9.6 9.6 31-152 46-130	mple s DF thod: E 1 1 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	06/20/21 17:53 06/20/21 17:53 06/20/21 17:53	CAS No. 646-31-1	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	" basis and are ad Results Analytical Met Pace Analytica ND ND 92 99	iusted for p Units hod: EPA 80 al Services - mg/kg mg/kg % % hod: EPA 80	Percent moisture, sa Report Limit 115B Preparation Me Kansas City 9.6 9.6 31-152 46-130	mple s DF thod: E 1 1 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	06/20/21 17:53 06/20/21 17:53 06/20/21 17:53	CAS No. 646-31-1	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics	" basis and are ad Results Analytical Met Pace Analytica ND ND 92 99 Analytical Met Pace Analytica	iusted for p Units hod: EPA 80 al Services - mg/kg mg/kg % % hod: EPA 80 al Services -	Percent moisture, sa Report Limit 115B Preparation Me Kansas City 9.6 9.6 31-152 46-130 115B Preparation Me Kansas City	mple s DF thod: E 1 1 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B	06/20/21 17:53 06/20/21 17:53 06/20/21 17:53	CAS No. 646-31-1	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO	" basis and are ad Results Analytical Met Pace Analytica ND ND 92 99 Analytical Met	iusted for p Units hod: EPA 80 al Services - mg/kg mg/kg % % hod: EPA 80	Percent moisture, sa Report Limit 115B Preparation Me Kansas City 9.6 9.6 31-152 46-130	mple s DF thod: E 1 1 1 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B	66/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53	CAS No. 646-31-1	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics	" basis and are ad Results Analytical Met Pace Analytica ND ND 92 99 Analytical Met Pace Analytica	iusted for p Units hod: EPA 80 al Services - mg/kg mg/kg % % hod: EPA 80 al Services -	Percent moisture, sa Report Limit 115B Preparation Me Kansas City 9.6 9.6 31-152 46-130 115B Preparation Me Kansas City	mple s DF thod: E 1 1 1 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17	66/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53	CAS No. 646-31-1 92-94-4	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates	" basis and are ad Results Analytical Meti Pace Analytica ND 92 99 Analytical Meti Pace Analytica ND 97	iusted for p Units hod: EPA 80 al Services - mg/kg % % hod: EPA 80 al Services - mg/kg %	Percent moisture, sa Report Limit 115B Preparation Me Kansas City 9.6 9.6 31-152 46-130 115B Preparation Me Kansas City 10	mple s DF thod: E 1 1 1 thod: E 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17	6/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53	CAS No. 646-31-1 92-94-4	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	" basis and are ad Results Analytical Meti Pace Analytica ND 92 99 Analytical Meti Pace Analytica ND 97	iusted for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82	Percent moisture, sa Report Limit P15B Preparation Me Kansas City 9.6 9.6 31-152 46-130 Preparation Me Kansas City 10 63-121	mple s DF thod: E 1 1 1 thod: E 1 1	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17	6/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53	CAS No. 646-31-1 92-94-4	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA	" basis and are ad Results Analytical Met Pace Analytica ND 92 99 Analytical Met Pace Analytica ND 97 Analytical Met Pace Analytical	iusted for p Units hod: EPA 80 al Services - mg/kg mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services -	Percent moisture, sa Report Limit P15B Preparation Me Kansas City 9.6 9.6 31-152 46-130 Preparation Me Kansas City 10 63-121 Preparation Me Kansas City	mple s DF thod: E 1 1 1 thod: E 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030	Analyzed           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/22/21 17:32           06/22/21 17:32	CAS No. 646-31-1 92-94-4 460-00-4	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene	" basis and are ad Results Analytical Meti Pace Analytica ND 92 99 Analytical Meti Pace Analytica ND 97 Analytical Meti Pace Analytica ND	iusted for p Units hod: EPA 80 al Services - mg/kg % % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services - ug/kg	Percent moisture, sa Report Limit PI5B Preparation Me Kansas City 9.6 9.6 31-152 46-130 Preparation Me Kansas City 10 63-121 P60B Preparation Me Kansas City 4.9	mple s DF thod: E 1 1 thod: E 1 thod: E 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22	ions. Analyzed 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/20/21 17:53 06/22/21 17:32 06/22/21 17:32	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene	" basis and are ad Results Analytical Meti Pace Analytica ND 92 99 Analytical Meti Pace Analytica ND 97 Analytical Meti Pace Analytica ND ND ND	iusted for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services - ug/kg ug/kg	Percent moisture, sa Report Limit P15B Preparation Me Kansas City 9.6 9.6 31-152 46-130 P15B Preparation Me Kansas City 10 63-121 260B Preparation Me Kansas City 4.9 4.9	mple s DF thod: E 1 1 thod: E 1 thod: E 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22	ions.           Analyzed           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/22/21 17:32           06/22/21 17:32           06/22/21 17:32           06/22/21 17:32           06/22/21 17:32           06/18/21 23:53           06/18/21 23:53	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene	" basis and are ad Results Analytical Meti Pace Analytica ND 92 99 Analytical Meti Pace Analytica ND 97 Analytical Meti Pace Analytica ND ND ND ND ND	iusted for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services - ug/kg ug/kg ug/kg ug/kg	Percent moisture, sa Report Limit P15B Preparation Me Kansas City 9.6 9.6 31-152 46-130 P15B Preparation Me Kansas City 10 63-121 260B Preparation Me Kansas City 4.9 4.9 4.9	mple s DF thod: E 1 1 thod: E 1 thod: E 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	Joins.           Analyzed           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/22/21 17:32           06/22/21 17:32           06/22/21 17:32           06/18/21 23:53           06/18/21 23:53           06/18/21 23:53           06/18/21 23:53           06/18/21 23:53	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene	" basis and are ad Results Analytical Meti Pace Analytica ND 92 99 Analytical Meti Pace Analytica ND 97 Analytical Meti Pace Analytica ND ND ND	iusted for p Units hod: EPA 80 al Services - mg/kg % hod: EPA 80 al Services - mg/kg % hod: EPA 82 al Services - ug/kg ug/kg	Percent moisture, sa Report Limit P15B Preparation Me Kansas City 9.6 9.6 31-152 46-130 P15B Preparation Me Kansas City 10 63-121 260B Preparation Me Kansas City 4.9 4.9	mple s DF thod: E 1 1 thod: E 1 thod: E 1 thod: E	ize and any dilut Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	ions.           Analyzed           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/20/21 17:53           06/22/21 17:32           06/22/21 17:32           06/22/21 17:32           06/22/21 17:32           06/22/21 17:32           06/18/21 23:53           06/18/21 23:53	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qual

# **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



Project: MCA 1-A HEADER

Pace Project No.: 60372652

Sample: WSW-2	Lab ID: 603		Collected: 06/16/2				latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Meth Pace Analytica		60B Preparation Me Kansas City	ethod: E	PA 5035A/5030			
<i>Surrogates</i> 4-Bromofluorobenzene (S) 1,2-Dichlorobenzene-d4 (S)	104 101	% %	80-120 80-120	1 1		06/18/21 23:53 06/18/21 23:53		
Percent Moisture	Analytical Meth Pace Analytica							
Percent Moisture	ND	%	0.50	1		06/18/21 13:54		
9056 IC Anions	Analytical Meth Pace Analytica		56 Preparation Meth Kansas City	nod: EP	A 9056			
Chloride	ND	mg/kg	100	10	06/18/21 08:26	06/19/21 00:39	16887-00-6	
Sample: WSW-3	Lab ID: 603	72652011	Collected: 06/16/2	21 12:30	) Received: 06	/18/21 08:20 N	latrix: Solid	
Results reported on a "dry weight	" hasis and are adi	iusted for n	ercent moisture, sa	mple s	ize and any dilut	tions.		
results reported on a dry weight	basis and are adj	usicu ioi p						
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Parameters	Results	Units	Report Limit 15B Preparation Me	DF	Prepared		CAS No.	Qual
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Results Analytical Meth	Units	Report Limit 15B Preparation Me	DF	Prepared PA 3546 06/18/21 13:39		CAS No.	Qual
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Results Analytical Meth Pace Analytica ND	Units nod: EPA 80 Il Services - mg/kg	Report Limit 15B Preparation Me Kansas City 10.6	DF ethod: E	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39	Analyzed 06/20/21 18:02		Qual
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	Results Analytical Meth Pace Analytica ND ND	Units nod: EPA 80 Il Services - mg/kg mg/kg	Report Limit 115B Preparation Me Kansas City 10.6 10.6	DF ethod: E 1 1	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	Analyzed 06/20/21 18:02 06/20/21 18:02	646-31-1	Qual
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	Results Analytical Meth Pace Analytica ND ND 82 87	Units nod: EPA 80 Il Services - mg/kg mg/kg % % nod: EPA 80	Report Limit 15B Preparation Me Kansas City 10.6 10.6 31-152 46-130	DF ethod: E 1 1 1 1	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02	646-31-1	Qual
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO	Results Analytical Meth Pace Analytica ND ND 82 87 Analytical Meth	Units nod: EPA 80 Il Services - mg/kg mg/kg % % nod: EPA 80	Report Limit 15B Preparation Me Kansas City 10.6 10.6 31-152 46-130	DF ethod: E 1 1 1 1	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02	646-31-1	Qual
Parameters <b>3015B Diesel Range Organics</b> TPH-DRO (C10-C28) TPH-ORO (C28-C35) <b>Surrogates</b> n-Tetracosane (S) p-Terphenyl (S) <b>Gasoline Range Organics</b> TPH-GRO <b>Surrogates</b>	Results Analytical Meth Pace Analytica ND ND 82 87 Analytical Meth Pace Analytica	Units nod: EPA 80 Il Services - mg/kg % % nod: EPA 80 Il Services -	Report Limit 15B Preparation Me Kansas City 10.6 10.6 31-152 46-130 15B Preparation Me Kansas City	DF ethod: E 1 1 1 ethod: E	Prepared PR 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02	646-31-1 92-94-4	Qual
	Results Analytical Meth Pace Analytica ND 82 87 Analytical Meth Pace Analytica ND 99	Units nod: EPA 80 Il Services - mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82	Report Limit 115B Preparation Mer Kansas City 10.6 10.6 31-152 46-130 115B Preparation Mer Kansas City 11.1 63-121 160B Preparation Mer	DF ethod: E 1 1 1 ethod: E 1 1	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/22/21 17:54	646-31-1 92-94-4	Qual
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) po-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene	Results Analytical Meth Pace Analytica ND 82 87 Analytical Meth Pace Analytica ND 99 Analytical Meth	Units nod: EPA 80 Il Services - mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82	Report Limit 115B Preparation Mer Kansas City 10.6 10.6 31-152 46-130 115B Preparation Mer Kansas City 11.1 63-121 160B Preparation Mer	DF ethod: E 1 1 1 ethod: E 1 1	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/22/21 17:54	646-31-1 92-94-4 460-00-4	Qual
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Results Analytical Meth Pace Analytica ND 82 87 Analytical Meth Pace Analytical 99 Analytical Meth Pace Analytical	Units nod: EPA 80 Il Services - mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services -	Report Limit 15B Preparation Me Kansas City 10.6 10.6 31-152 46-130 15B Preparation Me Kansas City 11.1 63-121 60B Preparation Me Kansas City	DF ethod: E 1 1 1 ethod: E 1 1 ethod: E	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/22/21 17:54	646-31-1 92-94-4 460-00-4 71-43-2	Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene	Results Analytical Meth Pace Analytica ND 82 87 Analytical Meth Pace Analytica ND 99 Analytical Meth Pace Analytica ND	Units nod: EPA 80 Il Services - mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services - ug/kg ug/kg ug/kg	Report Limit 115B Preparation Me Kansas City 10.6 10.6 31-152 46-130 115B Preparation Me Kansas City 11.1 60B Preparation Me Kansas City 5.3 5.3 5.3 5.3	DF ethod: E 1 1 1 ethod: E 1 1 ethod: E 1 1 1 1 1	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 17:54 06/22/21 17:54 06/22/21 17:54 06/19/21 00:09 06/19/21 00:09	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene Xylene (Total)	Results Analytical Meth Pace Analytica ND 82 87 Analytical Meth Pace Analytica ND 99 Analytical Meth Pace Analytica ND ND ND	Units nod: EPA 80 il Services - mg/kg % nod: EPA 80 il Services - mg/kg % nod: EPA 82 il Services - ug/kg ug/kg	Report Limit 115B Preparation Me Kansas City 10.6 10.6 31-152 46-130 115B Preparation Me Kansas City 11.1 63-121 160B Preparation Me Kansas City 5.3 5.3	DF ethod: E 1 1 1 ethod: E 1 1 ethod: E 1 1 1	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/22/21 17:54 06/22/21 17:54 06/22/21 17:54	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) po-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene Xylene (Total) Surrogates Toluene-d8 (S)	Results Analytical Meth Pace Analytica ND 82 87 Analytical Meth Pace Analytica ND 99 Analytical Meth Pace Analytica ND ND ND ND ND	Units nod: EPA 80 Il Services - mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services - ug/kg ug/kg ug/kg	Report Limit 115B Preparation Me Kansas City 10.6 10.6 31-152 46-130 115B Preparation Me Kansas City 11.1 60B Preparation Me Kansas City 5.3 5.3 5.3 5.3	DF ethod: E 1 1 1 ethod: E 1 1 ethod: E 1 1 1 1 1	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 17:54 06/22/21 17:54 06/22/21 17:54 06/19/21 00:09 06/19/21 00:09	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) po-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene	Results Analytical Meth Pace Analytica ND 82 87 Analytical Meth Pace Analytica ND 99 Analytical Meth Pace Analytica ND ND ND ND ND ND	Units nod: EPA 80 il Services - mg/kg % nod: EPA 80 il Services - mg/kg % nod: EPA 82 il Services - ug/kg ug/kg ug/kg ug/kg	Report Limit 115B Preparation Me Kansas City 10.6 10.6 31-152 46-130 115B Preparation Me Kansas City 11.1 63-121 160B Preparation Me Kansas City 5.3 5.3 5.3 5.3 5.3	DF ethod: E 1 1 1 ethod: E 1 1 ethod: E 1 1 1 1 1 1	Prepared PA 3546 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 06/18/21 13:39 PA 5035A/5030B 06/21/21 22:17 06/21/21 22:17 PA 5035A/5030 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22 06/18/21 19:22	Analyzed 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/20/21 18:02 06/22/21 17:54 06/22/21 17:54 06/22/21 17:54 06/19/21 00:09 06/19/21 00:09 06/19/21 00:09	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qua

# **REPORT OF LABORATORY ANALYSIS**



Qual

Qual

#### ANALYTICAL RESULTS

Project: MCA 1-A HEADER Pace Project No.: 60372652 Sample: WSW-3 Lab ID: 60372652011 Collected: 06/16/21 12:30 Received: 06/18/21 08:20 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Analytical Method: ASTM D2974 **Percent Moisture** Pace Analytical Services - Kansas City Percent Moisture 5.7 % 0.50 1 06/18/21 13:55 9056 IC Anions Analytical Method: EPA 9056 Preparation Method: EPA 9056 Pace Analytical Services - Kansas City 06/18/21 08:26 06/19/21 00:56 16887-00-6 Chloride ND 106 mg/kg 10 Received: 06/18/21 08:20 Sample: WSW-4 Lab ID: 60372652012 Collected: 06/16/21 12:35 Matrix: Solid Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions. Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Analytical Method: EPA 8015B Preparation Method: EPA 3546 8015B Diesel Range Organics Pace Analytical Services - Kansas City **TPH-DRO (C10-C28)** ND mg/kg 10 1 06/18/21 13:39 06/20/21 18:10 **TPH-ORO** (C28-C35) ND 06/18/21 13:39 06/20/21 18:10 mg/kg 10 1 Surrogates n-Tetracosane (S) 85 % 31-152 1 06/18/21 13:39 06/20/21 18:10 646-31-1 p-Terphenyl (S) 93 % 46-130 1 06/18/21 13:39 06/20/21 18:10 92-94-4 **Gasoline Range Organics** Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B Pace Analytical Services - Kansas City **TPH-GRO** ND mg/kg 8.9 1 06/21/21 22:17 06/22/21 18:16 Surrogates 4-Bromofluorobenzene (S) 99 % 63-121 1 06/21/21 22:17 06/22/21 18:16 460-00-4 Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030 8260 MSV 5035A VOA Pace Analytical Services - Kansas City ND Benzene ug/kg 5.0 1 06/18/21 19:22 06/19/21 00:24 71-43-2 Ethylbenzene ND ug/kg 5.0 06/18/21 19:22 06/19/21 00:24 100-41-4 1 Toluene ND ug/kg 5.0 1 06/18/21 19:22 06/19/21 00:24 108-88-3 Xylene (Total) ND 5.0 06/18/21 19:22 06/19/21 00:24 1330-20-7 ug/kg 1 Surrogates % 100 06/18/21 19:22 06/19/21 00:24 2037-26-5 Toluene-d8 (S) 80-120 1 4-Bromofluorobenzene (S) 108 % 80-120 1 06/18/21 19:22 06/19/21 00:24 460-00-4 1,2-Dichlorobenzene-d4 (S) 101 % 80-120 1 06/18/21 19:22 06/19/21 00:24 2199-69-1 Analytical Method: ASTM D2974 **Percent Moisture** Pace Analytical Services - Kansas City Percent Moisture 0.50 1 ND % 06/18/21 13:55 Analytical Method: EPA 9056 Preparation Method: EPA 9056 9056 IC Anions Pace Analytical Services - Kansas City ND Chloride mg/kg 100 10 06/18/21 08:26 06/19/21 01:13 16887-00-6

### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



Project: MCA 1-A HEADER

Pace Project No.: 60372652

Sample: WSW-5	Lab ID: 603	72652013	Collected: 06/16/2	1 12:4	0 Received: 06	6/18/21 08:20 N	Atrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Meth	nod: EPA 80	15B Preparation Me	thod: E	PA 3546			
	Pace Analytica	I Services -	Kansas City					
TPH-DRO (C10-C28)	ND	mg/kg	10	1	06/18/21 13:39	06/20/21 18:34		
TPH-ORO (C28-C35)	ND	mg/kg	10	1	06/18/21 13:39	06/20/21 18:34		
Surrogates								
n-Tetracosane (S)	89	%	31-152	1		06/20/21 18:34		
p-Terphenyl (S)	97	%	46-130	1	06/18/21 13:39	06/20/21 18:34	92-94-4	
Gasoline Range Organics	Analytical Meth	nod: EPA 80	15B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	I Services -	Kansas City					
TPH-GRO	ND	mg/kg	9.8	1	06/21/21 22:17	06/22/21 18:38		
Surrogates								
4-Bromofluorobenzene (S)	98	%	63-121	1	06/21/21 22:17	06/22/21 18:38	460-00-4	
8260 MSV 5035A VOA	Analytical Meth	nod: EPA 82	60B Preparation Me	thod: E	PA 5035A/5030			
	Pace Analytica	I Services -	Kansas City					
Benzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/19/21 00:40	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	06/18/21 19:22	06/19/21 00:40	100-41-4	
Toluene	ND	ug/kg	5.0	1	06/18/21 19:22	06/19/21 00:40	108-88-3	
Xylene (Total)	ND	ug/kg	5.0	1	06/18/21 19:22	06/19/21 00:40	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80-120	1		06/19/21 00:40		
4-Bromofluorobenzene (S)	105	%	80-120	1		06/19/21 00:40		
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	06/18/21 19:22	06/19/21 00:40	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM [	02974					
	Pace Analytica	I Services -	Kansas City					
Percent Moisture	0.93	%	0.50	1		06/18/21 13:55		
9056 IC Anions	Analytical Meth	nod: EPA 90	56 Preparation Meth	nod: EF	PA 9056			
	Pace Analytica	I Services -	Kansas City					
Chloride	1060	mg/kg	101	10	06/18/21 08:26	06/19/21 01:31	16887-00-6	

## **REPORT OF LABORATORY ANALYSIS**

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Project:	MCA 1	A HEADER	ł										
Pace Project No.:	603726	52											
QC Batch:	72754	18		Analy	sis Metho	d: E	PA 8015B						
QC Batch Method:	EPA 5	5035A/5030	В	Analy	/sis Descri	otion: C	Gasoline Ra	nge Organ	ics				
				Labo	ratory:	F	Pace Analyti	cal Service	es - Kansa	s City			
Associated Lab San	nples:		001, 6037265200 008, 6037265200	,	,	,		,	,	372652007	,		
METHOD BLANK:	292294	1			Matrix: So	olid							
Associated Lab San	nples:		001, 6037265200 008, 6037265200		2010, 603					372652007	,		
Param	neter		Units	Res		Limit	Analy	zed	Qualifier	S			
TPH-GRO			mg/kg		ND	10.0	06/22/21	11:45					
4-Bromofluorobenze	ene (S)		%		99	63-12 <sup>-</sup>	06/22/21	11:45					
LABORATORY CON		SAMPLE:	2922942 Units	Spike Conc.	LC Res	-	LCS % Rec	% Re Limit		Qualifiers			
	netei									Quaimers	_		
TPH-GRO 4-Bromofluorobenze	ene (S)		mg/kg %	5	0	49.5	99 100		'1-107 3-121				
MATRIX SPIKE & M	IATRIX S	SPIKE DUP	LICATE: 2922			2922944							
MATRIX SPIKE & M	1ATRIX S	SPIKE DUP		MS	MSD					0/ D -			
MATRIX SPIKE & M Parameter		SPIKE DUP Units	60372652009		MSD Spike Conc.	2922944 MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual

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#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



Project:	ICA 1-A HEADER	र											
Pace Project No.: 6	0372652												
QC Batch:	727282			Analy	sis Metho	.d. E	PA 8260B						
QC Batch Method:	EPA 5035A/5030	h						0254 Vala	tilo Organi	<b>C</b> C			
QC Batch Method.	EFA 5055A/5050	)			sis Descri	•	260 MSV 5		Ũ				
Associated Lab Comp	60272652	001 60373	065200		atory:	۲ 72652004, 6	ace Analyt				7		
Associated Lab Samp						72652012, 6			52000, 00	572052007	,		
METHOD BLANK: 2	921942				Matrix: S	olid							
Associated Lab Samp						72652004, 6 72652012, 6			652006, 60	372652007	7,		
	00372032	.000, 00372	205201	0, 00372032 Blan		Reporting	03720320	15					
Parame	ter	Uni	ts	Resu		Limit	Analy	zed	Qualifier	s			
									200.00				
Benzene Ethylbenzene		ug/k	-			5.0 5.0							
Toluene		ug/k ug/k	-		ND ND	5.0							
Xylene (Total)		ug/k	-		ND	5.0							
1,2-Dichlorobenzene-	d4 (S)	49/1 %	-		100	80-120							
4-Bromofluorobenzen	( )	%			105	85-115							
Toluene-d8 (S)	- (-)	%			102	80-120							
LABORATORY CONT		2921943											
	NOL SAMI LL.	2921945		Spike	LC	CS	LCS	% R	ec				
Parame	ter	Uni	ts	Conc.	Re	sult	% Rec	Limi	ts	Qualifiers			
Benzene		ug/k	кg	100	C	99.5	99	3	30-120				
Ethylbenzene		ug/k	-	100		102	102		30-120				
Toluene		ug/k	-	100		99.9	100		30-120				
Xylene (Total)		ug/k	-	300	0	306	102		30-120				
1,2-Dichlorobenzene-	( )	%					98		30-120 85 115				
4-Bromofluorobenzen Toluene-d8 (S)	e (S)	% %					100 103		85-115 30-120				
Toldene-do (O)		70					100		50-120				
MATRIX SPIKE & MA	TRIX SPIKE DUF	PLICATE:	2921	944		2921945							
	-			MS	MSD	-							
		6037265	2001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	s Res	sult	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/kg	)	ND	99.7	99.7	81.2	91.0	81	91	35-120	11	35	
Ethylbenzene	ug/kg	9	ND	99.7	99.7	79.2	91.4	79	92		14		
	ug/kg		ND	99.7	99.7		86.6	76	87				
Toluene		-	ND	300	300	244	276	82	92				
Toluene Xylene (Total)	ug/kg	)											
Toluene Xylene (Total) 1,2-Dichlorobenzene-	d4 (S) %	)						98	98			3	
Toluene Xylene (Total)	d4 (S) %	]						98 96 98	98 97 99	85-115		3 20 20	

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#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



MCA 1-A HEADER

Project:

## **QUALITY CONTROL DATA**

QC Batch: 727450		Analysis N	lethod:	EF	PA 8260B		
QC Batch Method: EPA 5035A/5030		Analysis D	escription:	82	60 MSV 503	5A Volatile	Organics
		Laborator	/:	Pa	ice Analytical	Services -	Kansas City
Associated Lab Samples: 603726520	09						
METHOD BLANK: 2922758		Matr	ix: Solid				
Associated Lab Samples: 603726520	09						
		Blank	Repor	ting			
Parameter	Units	Result	Lim	it	Analyzed	d Q	ualifiers
Benzene	ug/kg	N	D	5.0	06/19/21 13	3:09	
Ethylbenzene	ug/kg	N	D	5.0	06/19/21 13	3:09	
Toluene	ug/kg	N	D	5.0	06/19/21 13	3:09	
Xylene (Total)	ug/kg	N	D	5.0	06/19/21 13	3:09	
1,2-Dichlorobenzene-d4 (S)	%	10	2 8	30-120	06/19/21 13	3:09	
4-Bromofluorobenzene (S)	%	10	2 8	35-115	06/19/21 13	3:09	
Toluene-d8 (S)	%	ę	7 8	30-120	06/19/21 13	3:09	
LABORATORY CONTROL SAMPLE:	2922759						
		Spike	LCS		LCS	% Rec	
Parameter	Units	Conc.	Result	ç	% Rec	Limits	Qualifiers
Benzene	ug/kg		96.	 5	97	80-1	20
Ethylbenzene	ug/kg	100	10	4	104	80-1	20

Ethylbenzene	ug/kg	100	104	104	80-120	
Toluene	ug/kg	100	94.4	94	80-120	
Xylene (Total)	ug/kg	300	311	104	80-120	
1,2-Dichlorobenzene-d4 (S)	%			98	80-120	
4-Bromofluorobenzene (S)	%			93	85-115	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 2922		1405	2922761							
Parameter	Units	60372738001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	128	129	109	110	85	85	35-120	1	35	
Ethylbenzene	ug/kg	ND	128	129	109	108	85	83	35-120	1	35	
Toluene	ug/kg	ND	128	129	101	97.0	79	75	35-120	4	35	
Xylene (Total)	ug/kg	ND	385	388	325	317	85	82	35-120	3	35	
1,2-Dichlorobenzene-d4 (S)	%						99	99	80-120		3	
4-Bromofluorobenzene (S)	%						107	101	85-115		20	
Toluene-d8 (S)	%						97	94	80-120		20	

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#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



Project:	-	A HEADER											
Pace Project No.:	603726												
QC Batch:	72724	6		Analy	sis Method	d: E	PA 8015B						
QC Batch Method:	EPA 3	546		Analy	sis Descri	ption: E	PA 8015B						
				Laboi	ratory:	Р	ace Analyt	ical Service	es - Kansa	s City			
Associated Lab San	nples:		01, 6037265200 08, 6037265200	,	,	,		,	,	372652007	,		
METHOD BLANK:	292181	9			Matrix: So	olid							
Associated Lab San	nples:		01, 6037265200 08, 6037265200	9, 6037265	2010, 603	72652011, 6				372652007	,		
_				Blan		Reporting			o ""				
Paran	neter		Units	Resu	JIT	Limit	Analy	/zed	Qualifier	S			
TPH-DRO (C10-C28	B)		mg/kg		ND	9.5	06/21/2	1 11:31					
1111-DILO (010-020			//			9.5	06/21/2	1 11 31					
TPH-ORO (C28-C3	5)		mg/kg		ND			-					
TPH-ORO (C28-C38 n-Tetracosane (S) p-Terphenyl (S)	5)		mg/kg % %		102 110	31-152 46-130		1 11:31					
TPH-ORO (C28-C38 n-Tetracosane (S) p-Terphenyl (S) LABORATORY COM		AMPLE: 2	% % 2921820	Spike	102 110 LC	31-152 46-130	06/21/2	1 11:31 1 11:31 % Re		Qualifiers			
TPH-ORO (C28-C38 n-Tetracosane (S) p-Terphenyl (S) LABORATORY CON Paran	NTROL S	SAMPLE: 2	% % 2921820 Units	Conc.	102 110 LC Res	31-152 46-130	06/21/2 LCS % Rec	1 11:31 1 11:31 % Ru Limi	its	Qualifiers			
TPH-ORO (C28-C34 n-Tetracosane (S) p-Terphenyl (S) LABORATORY CON Paran TPH-DRO (C10-C28	NTROL S	SAMPLE: 2	% % 2921820 Units mg/kg	•	102 110 LC Res	31-152 46-130	06/21/2 LCS % Rec 92	1 11:31 1 11:31 	its 74-124	Qualifiers			
TPH-ORO (C28-C38 n-Tetracosane (S) p-Terphenyl (S) LABORATORY CON Paran	NTROL S	SAMPLE: 2	% % 2921820 Units	Conc.	102 110 LC Res	31-152 46-130	06/21/2 LCS % Rec	1 11:31 1 11:31 	its	Qualifiers			
TPH-ORO (C28-C38 n-Tetracosane (S) p-Terphenyl (S) LABORATORY COM Paran TPH-DRO (C10-C28 n-Tetracosane (S) p-Terphenyl (S)	NTROL S neter B)		% % 2921820 Units mg/kg % %	Conc. 80.	102 110 LC 5	31-152 46-130	06/21/2 LCS % Rec 92 94	1 11:31 1 11:31 	its 74-124 31-152	Qualifiers	_		
TPH-ORO (C28-C38 n-Tetracosane (S) p-Terphenyl (S) LABORATORY COM Paran TPH-DRO (C10-C28 n-Tetracosane (S) p-Terphenyl (S)	NTROL S neter B)		% % 2921820 Units mg/kg % % ICATE: 2921	821 MS	102 110 LC Res 5 MSD	31-152 46-130 S Sult 74.2 2921822	06/21/2 LCS % Rec 92 9' 102	1 11:31 1 11:31 	rts 74-124 31-152 46-130			Max	
TPH-ORO (C28-C38 n-Tetracosane (S) p-Terphenyl (S) LABORATORY COM Paran TPH-DRO (C10-C28 n-Tetracosane (S) p-Terphenyl (S)	NTROL S neter B)		% % 2921820 Units mg/kg % %	Conc. 80.	102 110 LC 5	31-152 46-130 Soult 74.2	06/21/2 LCS % Rec 92 94	1 11:31 1 11:31 	its 74-124 31-152	Qualifiers % Rec Limits		Max RPD	Qual
TPH-ORO (C28-C38 n-Tetracosane (S) p-Terphenyl (S) LABORATORY COM Paran TPH-DRO (C10-C28 n-Tetracosane (S) p-Terphenyl (S) MATRIX SPIKE & M Parameter	NTROL S neter B) IATRIX S	PIKE DUPL	% % 2921820 Units mg/kg % % ICATE: 2921 60372652001	821 Spike	102 110 LC Res 5 MSD Spike	31-152 46-130 Soult 74.2 2921822 MS	06/21/2 LCS % Rec 92 9' 102 MSD	1 11:31 1 11:31 % Ri Limi 2 7 1 3 2 2 MS	rts 74-124 31-152 46-130 MSD	% Rec Limits		RPD	Qual
TPH-ORO (C28-C38 n-Tetracosane (S) p-Terphenyl (S) LABORATORY COM Paran TPH-DRO (C10-C28 n-Tetracosane (S) p-Terphenyl (S) MATRIX SPIKE & M	NTROL S neter B) IATRIX S	SPIKE DUPL	% % 2921820 Units mg/kg % % ICATE: 2921 60372652001 Result	821 MS Spike Conc.	102 110 LC Res 5 5 5 5	31-152 46-130 Soult 74.2 2921822 MS Result	06/21/2 LCS % Rec 92 97 102 MSD Result	1 11:31 1 11:31 2 % Ri Limi 2 7 1 3 2 2 2 % Rec MS % Rec	MSD % Rec	% Rec Limits 30-130		RPD	Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM

**Released to Imaging: 8/30/2021 11:23:11 AM** 



Project:	MCA 1	-A HEADER						
Pace Project No.:	603726	52						
QC Batch:	7272	93	Anal	ysis Method	l: AS	STM D2974		
QC Batch Method:	AST	1 D2974	Anal	ysis Descrip	otion: Dr	y Weight/Percent	Moisture	
			Labo	oratory:	Pa	ace Analytical Ser	vices - Kansas (	City
Associated Lab Sar	mples:	60372652001, 60372 60372652008, 60372						2652007,
METHOD BLANK:	292196	65		Matrix: Sc	lid			
Associated Lab Sar	mples:	60372652001, 6037 60372652008, 6037	'	,	,	,	,	2652007,
			Bla	nk F	Reporting			
Parar	neter	Uni	its Res	ult	Limit	Analyzed	Qualifiers	
Percent Moisture		%	, D	ND	0.50	06/18/21 13:53		
SAMPLE DUPLICA	TE: 29	21966						
			603724		Dup		Max	
Parar	neter	Uni	its Res	ult	Result	RPD	RPD	Qualifiers

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



Project: Pace Project No.:	MCA 1-A 6037265	A HEADER 52											
QC Batch:	727249	9		Analy	ysis Metho	od:	EPA 9056						
QC Batch Method:	EPA 90	056		Anal	ysis Descr	iption:	9056 IC Ar	ions					
				Labo	oratory:		Pace Analy	tical Servic	es - Kansa	s City			
Associated Lab San			, 60372652002 , 60372652009							372652007	,		
METHOD BLANK:	2921829	9			Matrix: S	olid							
Associated Lab San			, 60372652002 , 60372652009	9, 6037265	52010, 603	372652011,				372652007	7,		
Paran	notor		Units	Blaı Res		Reporting Limit	Δna	lyzed	Qualifier	c			
	lietei					-			Quaimer				
Chloride			mg/kg		ND	10	0 06/18/2	21 20:01					
LABORATORY COM	NTROL S	AMPLE: 29	21830										
Paran	neter		Units	Spike Conc.	_	CS sult	LCS % Rec	% R Lim		Qualifiers			
Chloride			mg/kg	50	00	538	1(	)8	80-120				
MATRIX SPIKE & M	IATRIX S	PIKE DUPLIC	ATE: 29218	331		2921832	2						
				MS	MSD								
			0372652001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	•	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg/kg	ND	508	508	512	509	93	92	80-120	1	15	
SAMPLE DUPLICA	TE: 292	1833											
Paran	neter		Units	603726 Res		Dup Result	RP	D	Max RPD	Qualif	iers		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/22/2021 07:52 PM



#### QUALIFIERS

Project: MCA 1-A HEADER

Pace Project No.: 60372652

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD - Relative Percent Difference** 

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### **REPORT OF LABORATORY ANALYSIS**



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	MCA 1-A HEADER
Pace Project No.:	60372652

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
60372652001	NSW-1	EPA 3546	727246	EPA 8015B	727451
60372652002	SSW-1	EPA 3546	727246	EPA 8015B	727451
60372652003	ESW-1	EPA 3546	727246	EPA 8015B	727451
0372652004	ESW-2	EPA 3546	727246	EPA 8015B	727451
0372652005	ESW-3	EPA 3546	727246	EPA 8015B	727451
0372652006	ESW-4	EPA 3546	727246	EPA 8015B	727451
0372652007	ESW-5	EPA 3546	727246	EPA 8015B	727451
0372652008	ESW-6	EPA 3546	727246	EPA 8015B	727451
0372652009	WSW-1	EPA 3546	727246	EPA 8015B	727451
0372652010	WSW-2	EPA 3546	727246	EPA 8015B	727451
0372652011	WSW-3	EPA 3546	727246	EPA 8015B	727451
0372652012	WSW-4	EPA 3546	727246	EPA 8015B	727451
0372652013	WSW-5	EPA 3546	727246	EPA 8015B	727451
0372652001	NSW-1	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652002	SSW-1	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652003	ESW-1	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652004	ESW-2	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652005	ESW-3	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652006	ESW-4	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652007	ESW-5	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652008	ESW-6	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652009	WSW-1	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652010	WSW-2	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652011	WSW-3	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652012	WSW-4	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652013	WSW-5	EPA 5035A/5030B	727548	EPA 8015B	727778
0372652001	NSW-1	EPA 5035A/5030	727282	EPA 8260B	727400
0372652002	SSW-1	EPA 5035A/5030	727282	EPA 8260B	727400
0372652003	ESW-1	EPA 5035A/5030	727282	EPA 8260B	727400
0372652004	ESW-2	EPA 5035A/5030	727282	EPA 8260B	727400
0372652005	ESW-3	EPA 5035A/5030	727282	EPA 8260B	727400
0372652006	ESW-4	EPA 5035A/5030	727282	EPA 8260B	727400
0372652007	ESW-5	EPA 5035A/5030	727282	EPA 8260B	727400
0372652008	ESW-6	EPA 5035A/5030	727282	EPA 8260B	727400
0372652009	WSW-1	EPA 5035A/5030	727450	EPA 8260B	727454
0372652010	WSW-2	EPA 5035A/5030	727282	EPA 8260B	727400
0372652011	WSW-3	EPA 5035A/5030	727282	EPA 8260B	727400
0372652012	WSW-4	EPA 5035A/5030	727282	EPA 8260B	727400
0372652013	WSW-5	EPA 5035A/5030	727282	EPA 8260B	727400
0372652001	NSW-1	ASTM D2974	727293		
0372652002	SSW-1	ASTM D2974	727293		
0372652003	ESW-1	ASTM D2974	727293		
0372652004	ESW-2	ASTM D2974	727293		
0372652005	ESW-3	ASTM D2974	727293		
0372652006	ESW-4	ASTM D2974	727293		
60372652007	ESW-5	ASTM D2974	727293		

#### **REPORT OF LABORATORY ANALYSIS**



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCA 1-A HEADER Pace Project No.: 60372652

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60372652008	ESW-6	ASTM D2974	727293		
60372652009	WSW-1	ASTM D2974	727293		
60372652010	WSW-2	ASTM D2974	727293		
60372652011	WSW-3	ASTM D2974	727293		
60372652012	WSW-4	ASTM D2974	727293		
60372652013	WSW-5	ASTM D2974	727293		
60372652001	NSW-1	EPA 9056	727249	EPA 9056	727605
60372652002	SSW-1	EPA 9056	727249	EPA 9056	727605
60372652003	ESW-1	EPA 9056	727249	EPA 9056	727605
60372652004	ESW-2	EPA 9056	727249	EPA 9056	727605
60372652005	ESW-3	EPA 9056	727249	EPA 9056	727605
60372652006	ESW-4	EPA 9056	727249	EPA 9056	727605
60372652007	ESW-5	EPA 9056	727249	EPA 9056	727605
60372652008	ESW-6	EPA 9056	727249	EPA 9056	727605
60372652009	WSW-1	EPA 9056	727249	EPA 9056	727605
60372652010	WSW-2	EPA 9056	727249	EPA 9056	727605
60372652011	WSW-3	EPA 9056	727249	EPA 9056	727605
60372652012	WSW-4	EPA 9056	727249	EPA 9056	727605
60372652013	WSW-5	EPA 9056	727249	EPA 9056	727605

## **REPORT OF LABORATORY ANALYSIS**

Pace Analytical Sample Condition Upon Receipt
www.pacelebs.com
£03798E2
60372652
Client Name: Tetra Tech Conoco PMillipa
Courier:       FedEx I       UPS I       VIA I       Clay I       PEX I       ECI I       Pace I       Xroads I       Client I       Other I         Tracking #:       5002       0048       8783       Pace Shipping Label Used?       Yes II       No II
Custody Seal on Cooler/Box Present: Yes No D Seals intact: Yes No D
Packing Material: Bubble Wrap Bubble Bags Foam None Other 2p1c
Thermometer Used: T298 Type of Ice: We Blue None (0/18
Cooler Temperature (°C): As-read . 9 Corr. Factor 0.0 Corrected . 9 Date and initials of person ML
Temperature should be above freezing to 6°C
Chain of Custody present:
Chain of Custody relinquished:
Samples arrived within holding time:
Short Hold Time analyses (<72hr):
Rush Turn Around Time requested:
Sufficient volume:
Correct containers used:
Pace containers used:
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?
Filtered volume received for dissolved tests?
Sample labels match COC: Date / time / ID / analyses
Samples contain multiple phases? Matrix: N □Yes No □N/A
Containers requiring pH preservation in compliance?
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#
Cyanide water sample checks:
Lead acetate strip turns dark? (Record only)
Potassium iodide test strip turns blue/purple? (Preserve)
Trip Blank present:
Headspace in VOA vials ( >6mm):
Samples from USDA Regulated Area: State: TX Vies DNo DN/A Michand
Additional labels attached to 5035A / TX1005 vials in the field?  Yes  No  N/A
Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N
Person Contacted: Date/Time:
Comments/ Resolution:
Project Manager Review: Date:

F-KS-C-003-Rev 11, February 28, 2018

Record
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Rient Name:	Conoco Phillips	Site Manager:	S	Sam Abbott	ŧ				-	ANALYSIS	YSIS	REQ								0/24	
voject Name:	MCA 1-A Header	Contact Info:	щ њ	Ernail: sam.abbott@tetratech.com Phone: (512) 739-7874	12) 73	t@tetr -7874	atech.co	Ę	1			5_	(Circle (	or 5/	pecify		Method		(;		12021
Project Location:	Lea County, New Mexico	Project #:	8	212C-MD-02511	02511				<u> </u>					_						2.10.	2.16
· 25 · 1	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701								1	((								(12)	-	JIIA	51 DI
Receiving Laboratory:	Pace Analytical	Sampler Signature:	ure:	l nhol	John Thurston				<b>—</b>	DAM - C								l hertost			
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( LAB USE )	SAMPLE IDEN GLUATION	DATE	TIME	NATER Soil	HNO <sup>3</sup> HCT	ICE	NONE	# CONTA	FILTEREE	101XT H91 01XT H91	00728 HA9	Total Metal	TCLP Semi	BC/MS AN	CB.8 808	MAON	PLM (Asber 05 ebitold 05	Chloride Seneral Wa	oileO\noinA	92108 H91	9 101
	ISW-1	6/16/2021	10:15	×		1			1-												1
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	ESW-1	6/16/2021	10:25	×		×		-	× z	×					-		×			_	-
100	ESW-2	6/16/2021	10:30	×		×		-	×	×							×			-	
	ESW-3	6/16/2021	10:35	×		×		-	× z	×							×			_	
	ESW-4	6/16/2021	10:40	×	_	×		-	X N	×							×				<u>1</u> 3
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and the second s	ESW-6	6/16/2021	10:50	×		×		-	×	×				_			×			-	
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Sient Name:	Conoco Phillips	Site Manager:	Sam Abbott	bott			ANAL	YSIS	ANALYSIS REQUEST		:			.	8/24
voject Name:	MCA 1-A Header	Contact Info:	Email: s Phone:	am.abbott( (512) 739-	Ernail: sam.abbott@tetratech.com Phone: (512) 739-7874	com	; 	) 	(Circle	۶ <u> </u>	Specify Method	Meth 		No.)	/2021
oject Location:	Lea County, New Mexico	Project #:	212C-M	212C-MD-02511											<b>2:16</b> :
:29:1	Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701												()si		51 PA
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Comments: O	COPTETRA Acctnum								Cq Ct bp	<b>5</b> 4	00/952		uy (see attr SC		
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June 25, 2021

Sam Abbott Tetra Tech, Inc 8911 N Capital of Texas Hwy #2310 Austin, TX 78759

RE: Project: MCA 1-A HEADER Pace Project No.: 60373101

Dear Sam Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

This Wood

Nolie Wood nolie.wood@pacelabs.com 1(913)563-1401 Project Manager

Enclosures

cc: John Thurston, Tetra Tech-Houston TX



# **REPORT OF LABORATORY ANALYSIS**

Received by OCD: 8/24/2021 2:16:51 PM Pace Analytical<sup>®</sup> www.pacelabs.com

#### CERTIFICATIONS

Project: MCA 1-A HEADER

Pace Project No.: 60373101

#### Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Missouri Inorganic Drinking Water Certification #: 10090 Arkansas Drinking Water Arkansas Certification #: 20-020-0 Arkansas Drinking Water Illinois Certification #: 200030 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212020-2 Oklahoma Certification #: 9205/9935 Florida: Cert E871149 SEKS WET Texas Certification #: T104704407-19-12 Utah Certification #: KS000212019-9 Illinois Certification #: 004592 Kansas Field Laboratory Accreditation: # E-92587 Missouri SEKS Micro Certification: 10070

# **REPORT OF LABORATORY ANALYSIS**



### SAMPLE SUMMARY

Project: MCA 1-A HEADER Pace Project No.: 60373101

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60373101001	WSW-5 (1')	Solid	06/23/21 10:15	06/24/21 08:35
60373101002	FS-2	Solid	06/23/21 10:20	06/24/21 08:35
60373101003	FS-3	Solid	06/23/21 10:25	06/24/21 08:35
60373101004	FS-4	Solid	06/23/21 10:30	06/24/21 08:35

**REPORT OF LABORATORY ANALYSIS** 



### SAMPLE ANALYTE COUNT

Project: MCA 1-A HEADER

Pace Project No.: 60373101

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60373101001		EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60373101002	FS-2	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60373101003	FS-3	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60373101004	FS-4	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

#### **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADER

Pace Project No.: 60373101

Sample: WSW-5 (1')	Lab ID: 603	73101001	Collected: 06/23/2	1 10:15	5 Received: 06	6/24/21 08:35 I	Matrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	percent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Mether	nod: EPA 80	015B Preparation Me	thod: E	PA 3546			
	Pace Analytica	I Services -	Kansas City					
TPH-DRO (C10-C28)	ND	mg/kg	10.0	1	06/24/21 11:05	06/25/21 10:59	)	
TPH-ORO (C28-C35)	ND	mg/kg	10.0	1	06/24/21 11:05	06/25/21 10:59	)	
Surrogates								
n-Tetracosane (S)	90	%	31-152	1		06/25/21 10:59		
p-Terphenyl (S)	94	%	46-130	1	06/24/21 11:05	06/25/21 10:59	92-94-4	
Gasoline Range Organics	Analytical Mether	nod: EPA 80	015B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	I Services -	Kansas City					
TPH-GRO	ND	mg/kg	8.9	1	06/24/21 17:45	06/24/21 20:27	,	
Surrogates								
4-Bromofluorobenzene (S)	97	%	63-121	1	06/24/21 17:45	06/24/21 20:27	460-00-4	
8260 MSV 5035A VOA	Analytical Mether	nod: EPA 82	260B Preparation Me	thod: E	PA 5035A/5030			
	Pace Analytica	I Services -	Kansas City					
Benzene	ND	ug/kg	5.0	1	06/24/21 10:40	06/24/21 13:16	6 71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	06/24/21 10:40	06/24/21 13:16	6 100-41-4	
Toluene	ND	ug/kg	5.0	1	06/24/21 10:40	06/24/21 13:16	6 108-88-3	
Xylene (Total)	ND	ug/kg	5.0	1	06/24/21 10:40	06/24/21 13:16	3 1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	80-120	1		06/24/21 13:16		
4-Bromofluorobenzene (S)	96	%	80-120	1	06/24/21 10:40	06/24/21 13:16	6 460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120	1	06/24/21 10:40	06/24/21 13:16	5 2199-69-1	
Percent Moisture	Analytical Mether	nod: ASTM	D2974					
	Pace Analytica	I Services -	Kansas City					
Percent Moisture	0.63	%	0.50	1		06/24/21 10:40	)	
9056 IC Anions	Analytical Mether	nod: EPA 90	056 Preparation Meth	nod: EP	PA 9056			
	Pace Analytica	I Services -	Kansas City					
Chloride	ND	mg/kg	96.8	10	06/24/21 09:03	06/25/21 02:03	16887-00-6	
Sample: FS-2	Lab ID: 603	73101002	Collected: 06/23/2	1 10:20	Received: 06	6/24/21 08:35 I	Matrix: Solid	

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	,		5B Preparation Me	ethod: E	EPA 3546			
	Pace Analytica	al Services - K	ansas City					
TPH-DRO (C10-C28)	2560	mg/kg	99.0	10	06/24/21 11:05	06/25/21 11:24		
TPH-ORO (C28-C35)	1190	mg/kg	99.0	10	06/24/21 11:05	06/25/21 11:24		
Surrogates								
n-Tetracosane (S)	0	%	31-152	10	06/24/21 11:05	06/25/21 11:24	646-31-1	S4
p-Terphenyl (S)	0	%	46-130	10	06/24/21 11:05	06/25/21 11:24	92-94-4	S4

## **REPORT OF LABORATORY ANALYSIS**

Date: 06/25/2021 03:18 PM



Project: MCA 1-A HEADER

Pace Project No.: 60373101

Lab ID: 603	73101002	Collected: 06/23/2	1 10:20	Received: 06	/24/21 08:35 N	latrix: Solid	
-	-		-	-			
Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
Analytical Mether	nod: EPA 801	5B Preparation Me	thod: E	PA 5035A/5030B			
Pace Analytica	I Services - I	Kansas City					
ND	ma/ka	9.9	1	06/24/21 17:45	06/25/21 00:27		
93	%	63-121	1	06/24/21 17:45	06/25/21 00:27	460-00-4	
Analytical Met	nod: EPA 826	0B Preparation Me	thod: E	PA 5035A/5030B			
Pace Analytica	I Services - I	Kansas City					
ND	ua/ka	260	1	06/25/21 07:45	06/25/21 08:56	71-43-2	
	~g///g	200		00,20,21 01110	00,20,21 00.00		
100	%	80-120	1	06/25/21 07:45	06/25/21 08:56	2037-26-5	D3
101	%	83-119	1	06/25/21 07:45	06/25/21 08:56	460-00-4	
101	%		1				
Analytical Meth	nod: ASTM D	2974					
•							
2.6	%	0.50	1		06/24/21 10:40		
Analytical Mether	nod: EPA 905	6 Preparation Meth	nod: EP	A 9056			
ND	mg/kg	105	10	06/24/21 09:03	06/25/21 03:30	16887-00-6	
Lab ID: 603	73101003	Collected: 06/23/2	1 10:25	5 Received: 06	/24/21 08:35 N	Aatrix: Solid	
-		,	ilipie s	ize anu any unu	10115.		
Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
		Report Limit	DF	Prepared		CAS No.	Qual
Analytical Meth	nod: EPA 801	Report Limit 5B Preparation Me	DF	Prepared		CAS No.	Qua
	nod: EPA 801	Report Limit 5B Preparation Me	DF	Prepared		CAS No.	Qua
Analytical Meth Pace Analytica	nod: EPA 801 I Services - I	Report Limit 5B Preparation Me Kansas City	DF thod: E	Prepared PA 3546	Analyzed	CAS No.	Qua
Analytical Meth Pace Analytica ND	nod: EPA 801 I Services - I mg/kg	Report Limit 5B Preparation Me Kansas City 9.7	DF thod: E	Prepared PA 3546 06/24/21 11:05	Analyzed 06/25/21 12:55	CAS No.	Qua
Analytical Meth Pace Analytica	nod: EPA 801 I Services - I	Report Limit 5B Preparation Me Kansas City	DF thod: E	Prepared PA 3546 06/24/21 11:05	Analyzed	CAS No.	Qua
Analytical Meth Pace Analytica ND ND	nod: EPA 801 I Services - I mg/kg mg/kg	Report Limit 15B Preparation Me Kansas City 9.7 9.7	DF thod: E 1 1	Prepared PA 3546 06/24/21 11:05 06/24/21 11:05	Analyzed 06/25/21 12:55 06/25/21 12:55		Qua
Analytical Meth Pace Analytica ND	nod: EPA 801 I Services - I mg/kg	Report Limit 5B Preparation Me Kansas City 9.7	DF thod: E	Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	Analyzed 06/25/21 12:55	646-31-1	Qua
Analytical Meth Pace Analytica ND ND 89 96	nod: EPA 801 I Services - I mg/kg mg/kg % %	Report Limit 15B Preparation Me Kansas City 9.7 9.7 31-152 46-130	DF thod: E 1 1 1 1	Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	Analyzed 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55	646-31-1	Qua
Analytical Meth Pace Analytica ND ND 89 96 Analytical Meth	nod: EPA 801 I Services - I mg/kg mg/kg % % nod: EPA 801	Report Limit 15B Preparation Me Kansas City 9.7 9.7 31-152 46-130 15B Preparation Me	DF thod: E 1 1 1 1	Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	Analyzed 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55	646-31-1	Qua
Analytical Meth Pace Analytica ND ND 89 96 Analytical Meth Pace Analytica	nod: EPA 801 Il Services - I mg/kg mg/kg % % nod: EPA 801 Il Services - I	Report Limit 5B Preparation Me Kansas City 9.7 9.7 31-152 46-130 5B Preparation Me Kansas City	DF thod: E 1 1 1 thod: E	Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B	Analyzed 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55	646-31-1	Qua
Analytical Meth Pace Analytica ND ND 89 96 Analytical Meth	nod: EPA 801 I Services - I mg/kg mg/kg % % nod: EPA 801	Report Limit 15B Preparation Me Kansas City 9.7 9.7 31-152 46-130 15B Preparation Me	DF thod: E 1 1 1 1	Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B	Analyzed 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55	646-31-1	Qua
Analytical Meth Pace Analytica ND ND 89 96 Analytical Meth Pace Analytica	nod: EPA 801 Il Services - I mg/kg mg/kg % % nod: EPA 801 Il Services - I	Report Limit 5B Preparation Me Kansas City 9.7 9.7 31-152 46-130 5B Preparation Me Kansas City	DF thod: E 1 1 1 thod: E	Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45	Analyzed 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55 06/25/21 12:55	646-31-1 92-94-4	Qua
	" basis and are adj Results Analytical Meth Pace Analytica ND 93 Analytical Meth Pace Analytica ND ND ND 100 101 101 Analytical Meth Pace Analytica 2.6 Analytical Meth Pace Analytica ND	" basis and are adjusted for perfectives of the section of the se	" basis and are adjusted for percent moisture, sate         Results       Units       Report Limit         Analytical Method: EPA 8015B       Preparation Method: EPA 8015B       Preparation Method: BPace Analytical Services - Kansas City         ND       mg/kg       9.9         93       %       63-121         Analytical Method: EPA 8260B       Preparation Method: EPA 8260B       Preparation Method: BPace Analytical Services - Kansas City         ND       ug/kg       260         Analytical Method: EPA 9056       Preparation Method: EPA 9056       Preparation Method: EPA 9056         Pace Analytical Services - Kansas City       ND       Mg/kg <t< td=""><td>" basis and are adjusted for percent moisture, sample s         Results       Units       Report Limit       DF         Analytical Method: EPA 8015B       Preparation Method: EPA 8015B       Preparation Method: EPA 8015B       Preparation Method: EPA 8015B         ND       mg/kg       9.9       1         93       %       63-121       1         Analytical Method: EPA 8260B       Preparation Method: EPA 8260B       Preparation Method: EPA 8260B         Pace Analytical Method: EPA 8260B       Preparation Method: EPA 8260B       1         ND       ug/kg       260       1         101       %       80-120       1         101       %       1       1         Analytical Method: ASTM D2974       1       1         Pace Analytical Services - Kansas City       1       1         Analytical Method: EPA 9056       Preparation Method: EPA 9056       1         Analytical Method: EPA 9056       Preparation Method</td><td>" basis and are adjusted for percent moisture, sample size and any dilut           Results         Units         Report Limit         DF         Prepared           Analytical Method: EPA 8015B         Preparation Method: EPA 5035A/5030B         Pace Analytical Services - Kansas City         ND         mg/kg         9.9         1         06/24/21 17:45           93         %         63-121         1         06/24/21 17:45           Analytical Method: EPA 8260B         Preparation Method: EPA 5035A/5030B         Pace Analytical Method: EPA 8260B         Preparation Method: EPA 5035A/5030B           Pace Analytical Method: EPA 8260B         Preparation Method: EPA 5035A/5030B         Pace Analytical Services - Kansas City           ND         ug/kg         260         1         06/25/21 07:45           100         %         80-120         1         06/25/21 07:45           101         %         83-119         1         06/25/21 07:45           101</td><td>" basis and are adjusted for percent moisture, sample size and any dilutions.           Results         Units         Report Limit         DF         Prepared         Analyzed           Analytical Method: EPA 8015B         Preparation Method: EPA 5035A/5030B         Pace Analytical Services - Kansas City         06/24/21 17:45         06/25/21 00:27           93         %         63-121         1         06/24/21 17:45         06/25/21 00:27           93         %         63-121         1         06/24/21 17:45         06/25/21 00:27           Analytical Method: EPA 8260B         Preparation Method: EPA 5035A/5030B         Pace Analytical Services - Kansas City         06/25/21 07:45         06/25/21 08:56           ND         ug/kg         260         1         06/25/21 07:45         06/25/21 08:56           100         %         80-120         1         06/25/21 07:45</td><td>" basis and are adjusted for percent moisture, sample size and any dilutions.       Results       Units       Report Limit       DF       Prepared       Analyzed       CAS No.         Analytical Method: EPA 8015B       Preparation Method: EPA 5035A/5030B       Pace Analytical Services - Kansas City       06/24/21 17:45       06/25/21 00:27       93       %       63-121       1       06/24/21 17:45       06/25/21 00:27       460-00-4         Analytical Method: EPA 8260B       Preparation Method: EPA 5035A/5030B       Pace Analytical Method: EPA 8260B       Preparation Method: EPA 5035A/5030B         Pace Analytical Method: EPA 8260B       Preparation Method: EPA 5035A/5030B       06/25/21 00:27       460-00-4         Analytical Method: EPA 8260B       Preparation Method: EPA 5035A/5030B       71-43-2       06/25/21 07:45       06/25/21 08:56       71-43-2         ND       ug/kg       260       1       06/25/21 07:45       06/25/21 08:56       100-41-4         ND       ug/kg       260       1       06/25/21 07:45       06/25/21 08:56       100-41-4         ND       ug/kg       260       1       06/25/21 07:45       06/25/21 08:56       100-41-4         ND       ug/kg       260       1       06/25/21 07:45       06/25/21 08:56       130-20-7         100       %       8</td></t<>	" basis and are adjusted for percent moisture, sample s         Results       Units       Report Limit       DF         Analytical Method: EPA 8015B       Preparation Method: EPA 8015B       Preparation Method: EPA 8015B       Preparation Method: EPA 8015B         ND       mg/kg       9.9       1         93       %       63-121       1         Analytical Method: EPA 8260B       Preparation Method: EPA 8260B       Preparation Method: EPA 8260B         Pace Analytical Method: EPA 8260B       Preparation Method: EPA 8260B       1         ND       ug/kg       260       1         101       %       80-120       1         101       %       1       1         Analytical Method: ASTM D2974       1       1         Pace Analytical Services - Kansas City       1       1         Analytical Method: EPA 9056       Preparation Method: EPA 9056       1         Analytical Method: EPA 9056       Preparation Method	" basis and are adjusted for percent moisture, sample size and any dilut           Results         Units         Report Limit         DF         Prepared           Analytical Method: EPA 8015B         Preparation Method: EPA 5035A/5030B         Pace Analytical Services - Kansas City         ND         mg/kg         9.9         1         06/24/21 17:45           93         %         63-121         1         06/24/21 17:45           Analytical Method: EPA 8260B         Preparation Method: EPA 5035A/5030B         Pace Analytical Method: EPA 8260B         Preparation Method: EPA 5035A/5030B           Pace Analytical Method: EPA 8260B         Preparation Method: EPA 5035A/5030B         Pace Analytical Services - Kansas City           ND         ug/kg         260         1         06/25/21 07:45           100         %         80-120         1         06/25/21 07:45           101         %         83-119         1         06/25/21 07:45           101	" basis and are adjusted for percent moisture, sample size and any dilutions.           Results         Units         Report Limit         DF         Prepared         Analyzed           Analytical Method: EPA 8015B         Preparation Method: EPA 5035A/5030B         Pace Analytical Services - Kansas City         06/24/21 17:45         06/25/21 00:27           93         %         63-121         1         06/24/21 17:45         06/25/21 00:27           93         %         63-121         1         06/24/21 17:45         06/25/21 00:27           Analytical Method: EPA 8260B         Preparation Method: EPA 5035A/5030B         Pace Analytical Services - Kansas City         06/25/21 07:45         06/25/21 08:56           ND         ug/kg         260         1         06/25/21 07:45         06/25/21 08:56           100         %         80-120         1         06/25/21 07:45	" basis and are adjusted for percent moisture, sample size and any dilutions.       Results       Units       Report Limit       DF       Prepared       Analyzed       CAS No.         Analytical Method: EPA 8015B       Preparation Method: EPA 5035A/5030B       Pace Analytical Services - Kansas City       06/24/21 17:45       06/25/21 00:27       93       %       63-121       1       06/24/21 17:45       06/25/21 00:27       460-00-4         Analytical Method: EPA 8260B       Preparation Method: EPA 5035A/5030B       Pace Analytical Method: EPA 8260B       Preparation Method: EPA 5035A/5030B         Pace Analytical Method: EPA 8260B       Preparation Method: EPA 5035A/5030B       06/25/21 00:27       460-00-4         Analytical Method: EPA 8260B       Preparation Method: EPA 5035A/5030B       71-43-2       06/25/21 07:45       06/25/21 08:56       71-43-2         ND       ug/kg       260       1       06/25/21 07:45       06/25/21 08:56       100-41-4         ND       ug/kg       260       1       06/25/21 07:45       06/25/21 08:56       100-41-4         ND       ug/kg       260       1       06/25/21 07:45       06/25/21 08:56       100-41-4         ND       ug/kg       260       1       06/25/21 07:45       06/25/21 08:56       130-20-7         100       %       8

# **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADER

Pace Project No.: 60373101

Sample: FS-3	Lab ID: 603	73101003	Collected: 06/23/2	21 10:2	5 Received: 06	5/24/21 08:35 N	Aatrix: Solid	
Results reported on a "dry weight	t" basis and are ad	iusted for p	ercent moisture, sa	mple s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Met	hod: EPA 82	260B Preparation Me	ethod: E	EPA 5035A/5030B			
	Pace Analytica	al Services -	Kansas City					
Benzene	ND	ug/kg	262	1	06/25/21 07:45	06/25/21 09:11	71-43-2	
Ethylbenzene	ND	ug/kg	262	1	06/25/21 07:45	06/25/21 09:11	100-41-4	
Toluene	ND	ug/kg	262	1	06/25/21 07:45	06/25/21 09:11	108-88-3	
Xylene (Total)	ND	ug/kg	262	1	06/25/21 07:45	06/25/21 09:11	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80-120	1	06/25/21 07:45	06/25/21 09:11	2037-26-5	D3
4-Bromofluorobenzene (S)	105	%	83-119	1	06/25/21 07:45	06/25/21 09:11	460-00-4	
1,2-Dichlorobenzene-d4 (S)	106	%		1	06/25/21 07:45	06/25/21 09:11	2199-69-1	
Percent Moisture	Analytical Met	hod: ASTM	D2974					
	Pace Analytica	al Services -	Kansas City					
Percent Moisture	2.9	%	0.50	1		06/24/21 10:40		
9056 IC Anions	Analytical Met	hod: EPA 90	56 Preparation Met	nod: EF	PA 9056			
	Pace Analytica							
Obleside	,		,	40	00/04/04 00 00	00/05/04 04 05	40007 00 0	
Chloride	ND	mg/kg	101	10	06/24/21 09:03	06/25/21 04:05	10007-00-0	
		70404004	0	4 40 0				
Sample: FS-4	Lab ID: 603		Collected: 06/23/2				Aatrix: Solid	
Results reported on a "dry weight	-	-		-	-			<u> </u>
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Met	hod: EPA 80	15B Preparation Me	ethod: E	EPA 3546			
	Pace Analytica	al Services -	Kansas City					
TPH-DRO (C10-C28)	ND	mg/kg	9.7	1	06/24/21 11:05	06/25/21 11:41		
TPH-ORO (C28-C35)	ND	mg/kg	9.7	1		06/25/21 11:41		
Surrogates			0.1	•	00/2 //2 11100	00,20,21		
n-Tetracosane (S)	88	%	31-152	1	06/24/21 11:05	06/25/21 11:41	646-31-1	
p-Terphenyl (S)	94	%	46-130	1	06/24/21 11:05	06/25/21 11:41	92-94-4	
Gasoline Range Organics	Analytical Met	hod: EPA 80	15B Preparation Me	ethod: E	EPA 5035A/5030B			
	Pace Analytica							
TPH-GRO	ND	mg/kg	9.6	1	06/24/21 17:45	06/24/21 21:06		
Surrogates		0.0						
4-Bromofluorobenzene (S)	96	%	63-121	1	06/24/21 17:45	06/24/21 21:06	460-00-4	
8260 MSV 5035A VOA	Analytical Met	hod: EPA 82	260B Preparation Me	ethod: E	EPA 5035A/5030			
	Pace Analytica	al Services -	Kansas City					
Benzene	ND	ug/kg	5.1	1	06/24/21 10:40	06/24/21 14:03	71-43-2	
Ethylbenzene	ND	ug/kg	5.1	1		06/24/21 14:03		
Toluene	ND	ug/kg	5.1	1		06/24/21 14:03		
Xylene (Total)	ND	ug/kg	5.1	1		06/24/21 14:03		
Surrogates		uy/ky	5.1	I	50/24/21 10.40	50/27/21 14.03	1000-20-1	
Toluene-d8 (S)	102	%	80-120	1		06/24/21 14:03		

## **REPORT OF LABORATORY ANALYSIS**

Date: 06/25/2021 03:18 PM



Project: MCA 1-A HEADER

Pace Project No.: 60373101

Sample: FS-4	Lab ID: 6037	3101004	Collected: 06/23/2	1 10:3	0 Received: 06	6/24/21 08:35 N	Aatrix: Solid				
Results reported on a "dry weigh	nt" basis and are adju	usted for pe	rcent moisture, sa	mple s	size and any dilu	tions.					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual			
8260 MSV 5035A VOA	Analytical Method: EPA 8260B Preparation Method: EPA 5035A/5030										
	Pace Analytical	Services - K	ansas City								
Surrogates											
4-Bromofluorobenzene (S)	104	%	80-120	1	06/24/21 10:40	06/24/21 14:03	460-00-4				
1,2-Dichlorobenzene-d4 (S)	102	%	80-120	1	06/24/21 10:40	06/24/21 14:03	2199-69-1				
Percent Moisture	Analytical Meth	od: ASTM D2	2974								
	Pace Analytical	Services - K	ansas City								
Percent Moisture	1.5	%	0.50	1		06/24/21 10:40					
9056 IC Anions	Analytical Meth	od: EPA 905	6 Preparation Meth	nod: EF	PA 9056						
	Pace Analytical	Services - K	ansas City								
Chloride	ND	mg/kg	99.5	10	06/24/21 09:03	06/25/21 04:22	16887-00-6				

## **REPORT OF LABORATORY ANALYSIS**



Project:	MCA 1-A HEADEF	R										
Pace Project No.:	60373101											
QC Batch:	728408		Analy	sis Metho	d:	EPA 8015B						
QC Batch Method:	EPA 5035A/5030	B	Analy	sis Descri	ption:	Gasoline Rai	nge Orga	nics				
			Labor	atory:		Pace Analytic	cal Servic	es - Kansa	as City			
Associated Lab Samp	oles: 60373101	001, 6037310100	02, 6037310 <sup>,</sup>	1003, 603	73101004							
METHOD BLANK:	2925809			Matrix: So	olid							
Associated Lab Samp	oles: 60373101	001, 6037310100	02, 6037310 <sup>-</sup>	1003, 603 <sup>-</sup>	73101004							
			Blan	k l	Reporting							
Parame	eter	Units	Resu	ılt	Limit	Analy	zed	Qualifie	rs			
TPH-GRO		mg/kg		ND	10.	0 06/24/21	19:27					
4-Bromofluorobenzer	ne (S)	%		95	63-12	1 06/24/21	19:27					
LABORATORY CON	TROL SAMPLE:	2925810	Spike	LC	S	LCS	% R					
Parame	eter	Units	Conc.	Res	sult	% Rec	Lim	its	Qualifiers	_		
Parame TPH-GRO	eter	Units mg/kg	Conc. 50		sult 50.4	% Rec 101		its 	Qualifiers	_		
TPH-GRO									Qualifiers	_		
TPH-GRO 4-Bromofluorobenzer	ne (S)	mg/kg %	50			101 99		71-107	Qualifiers	_		
TPH-GRO 4-Bromofluorobenzer	ne (S)	mg/kg %	50		50.4	101 99		71-107	Qualifiers	_		
TPH-GRO 4-Bromofluorobenzer	ne (S)	mg/kg %	811		50.4	101 99		71-107	Qualifiers %	_	Max	
	ne (S)	mg/kg % PLICATE: 2925 60373103005	811 MS	MSD	50.4 2925812	101 99 2		71-107 63-121		RPD	Max RPD	Qual
TPH-GRO 4-Bromofluorobenzer MATRIX SPIKE & MA	ne (S) ATRIX SPIKE DUP	mg/kg % PLICATE: 2925 60373103005 Result	811 MS Spike	MSD Spike	50.4 2925812 MS	101 99 2 MSD	MS	71-107 63-121 MSD % Rec	% Rec Limits			Qual

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A	HEADER				
Pace Project No.: 60373101					
QC Batch: 728413		Analysis Meth	nod: EF	PA 8260B	
QC Batch Method: EPA 503	35A/5030	Analysis Desc	cription: 82	60 MSV 5035A Vol	atile Organics
		Laboratory:	Pa	ace Analytical Servi	ces - Kansas City
Associated Lab Samples: 6	0373101001, 60373101004				
METHOD BLANK: 2925835		Matrix:	Solid		
Associated Lab Samples: 6	0373101001, 60373101004				
		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	06/24/21 13:01	
Ethylbenzene	ug/kg	ND	5.0	06/24/21 13:01	
Toluene	ug/kg	ND	5.0	06/24/21 13:01	
Xylene (Total)	ug/kg	ND	5.0	06/24/21 13:01	
1,2-Dichlorobenzene-d4 (S)	%	102	80-120	06/24/21 13:01	
4-Bromofluorobenzene (S)	%	103	85-115	06/24/21 13:01	
Toluene-d8 (S)	%	99	80-120	06/24/21 13:01	

#### LABORATORY CONTROL SAMPLE: 2925836

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	101	101	80-120	
Ethylbenzene	ug/kg	100	98.9	99	80-120	
Toluene	ug/kg	100	97.5	98	80-120	
Xylene (Total)	ug/kg	300	296	99	80-120	
1,2-Dichlorobenzene-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			100	85-115	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLI	CATE: 2925	837		2925838							
			MS	MSD								
	6	0372659003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/kg	ND	117	115	87.8	95.8	75	83	35-120	9	35	
Ethylbenzene	ug/kg	ND	117	115	79.2	86.2	67	74	35-120	8	35	
Toluene	ug/kg	ND	117	115	83.1	90.2	70	77	35-120	8	35	
Xylene (Total)	ug/kg	ND	350	346	238	256	68	74	35-120	7	35	
1,2-Dichlorobenzene-d4 (S)	%						101	101	80-120		3	
4-Bromofluorobenzene (S)	%						101	99	85-115		20	
Toluene-d8 (S)	%						99	99	80-120		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/25/2021 03:18 PM



QC Batch: 728573		Analysis Meth	hod: EF	PA 8260B	
QC Batch Method: EPA 5035	A/5030B	Analysis Des	cription: 82	60 MSV 5035A Vol	atile Organics
		Laboratory:	Pa	ace Analytical Servi	ces - Kansas City
Associated Lab Samples: 603	73101002, 60373101003				
METHOD BLANK: 2926509		Matrix:	Solid		
Associated Lab Samples: 603	73101002, 60373101003				
		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	250	06/25/21 08:40	
Ethylbenzene	ug/kg	ND	250	06/25/21 08:40	
Toluene	ug/kg	ND	250	06/25/21 08:40	
Kylene (Total)	ug/kg	ND	250	06/25/21 08:40	
1,2-Dichlorobenzene-d4 (S)	%	101		06/25/21 08:40	
1-Bromofluorobenzene (S)	%	104	83-119	06/25/21 08:40	
Toluene-d8 (S)	%	99	80-120	06/25/21 08:40	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg		4510	90	73-117	
Ethylbenzene	ug/kg	5000	4670	93	73-121	
Toluene	ug/kg	5000	4500	90	77-119	
Xylene (Total)	ug/kg	15000	13700	92	76-119	
1,2-Dichlorobenzene-d4 (S)	%			101		
4-Bromofluorobenzene (S)	%			96	83-119	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPI	LICATE: 2926	511		2926512							
Parameter	Units	60373103004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	5070	5070	4730	4780	93	94	17-134	1	53	
Ethylbenzene	ug/kg	ND	5070	5070	4920	5050	97	100	10-137	3	60	
Toluene	ug/kg	ND	5070	5070	4770	4920	94	97	13-131	3	60	
Xylene (Total)	ug/kg	ND	15300	15300	14600	14800	96	98	10-137	2	58	
1,2-Dichlorobenzene-d4 (S)	%						99	100				
4-Bromofluorobenzene (S)	%						101	102	83-119			
Toluene-d8 (S)	%						101	100	80-120			

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#### **REPORT OF LABORATORY ANALYSIS**

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Project:	MCA 1-A HEADER	र										
Pace Project No.:	60373101											
QC Batch:	728402		Analy	sis Metho	od:	EPA 8015B						
QC Batch Method:	EPA 3546		Analy	/sis Descr	iption:	EPA 8015B						
			Labo	ratory:		Pace Analyti	cal Servic	es - Kansa	s City			
Associated Lab San	nples: 60373101	001, 6037310100	02, 6037310	1003, 603	373101004							
METHOD BLANK:	2925757			Matrix: S	olid							
Associated Lab San	nples: 60373101	001, 6037310100	02, 6037310	1003, 603	373101004							
			Blar	nk	Reporting							
Paran	neter	Units	Res	ult	Limit	Analy	zed	Qualifier	S			
TPH-DRO (C10-C28	3)	mg/kg		ND	9.	8 06/25/21	10:43					
TPH-ORO (C28-C3	5)	mg/kg		ND	9.	8 06/25/21	10:43					
n-Tetracosane (S)		%		106	31-15							
p-Terphenyl (S)		%		112	46-13	0 06/25/21	10:43					
LABORATORY COM	NTROL SAMPLE:	2925758										
			Spike	LC	CS	LCS	% F	ec				
Paran	neter	Units	Conc.	Re	sult	% Rec	Lim	its	Qualifiers			
TPH-DRO (C10-C28	3)	mg/kg		.9	75.2	92	2	74-124				
n-Tetracosane (S)	,	%				107	,	31-152				
p-Terphenyl (S)		%				116	6	46-130				
MATRIX SPIKE & M		PLICATE: 2925	759		2925760	)						
		LIGATE. 2920	MS	MSD	2020700	,						
		60373101001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	· Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
TPH-DRO (C10-C28	3) mg/kg	 aND	83.7	80.7	75.0	75.4	87	91	30-130	1	35	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

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n-Tetracosane (S)

p-Terphenyl (S)

%

%

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31-152

46-130

103

109

99

107



Project:	MCA 1-A HEADER								
Pace Project No.:	60373101								
QC Batch:	728415		Analysis Meth	nod: AS	STM D2974				
QC Batch Method:	QC Batch Method: ASTM D2974		Analysis Desc	Analysis Description: D		Dry Weight/Percent Moisture			
			Laboratory:		Pace Analytical Services - Kansas City				
Associated Lab Sam	ples: 603731010	01, 6037310100	02, 60373101003, 60	0373101004					
METHOD BLANK:	2925848		Matrix:	Solid					
Associated Lab Sam	nles: 602721010	01 6037310100	02, 60373101003, 60	0373101004					
Associated Lab Sam	$p_{100} = 000751010$	01,0057510100	$\Sigma_{2},000101010000,000$	0010101001					
Associated Lab Sam	003731010	01,0037510100	Blank	Reporting					
Param		Units			Analyzed	Qualifiers			
		·	Blank	Reporting		Qualifiers	_		
Paramo		Units	Blank Result	Reporting Limit		Qualifiers	_		
Paramo	eter	Units	Blank Result	Reporting Limit		Qualifiers	_		
Paramo Percent Moisture	eter	Units	Blank Result	Reporting Limit		Qualifiers	_		
Paramo Percent Moisture	eter	Units	Blank Result ND	Reporting Limit 0.50			Qualifiers		

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### **REPORT OF LABORATORY ANALYSIS**

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Project:	MCA 1-A HEADER	२										
Pace Project No.:	60373101											
QC Batch:	728416		Analy	sis Metho	d:	EPA 9056						
QC Batch Method:	EPA 9056		Analysis Description:			9056 IC Anions						
			Labo	Laboratory:			Pace Analytical Services - Kansas City					
Associated Lab San	nples: 60373101	001, 6037310100	2, 6037310	1003, 603	73101004							
METHOD BLANK:	2925878			Matrix: So	olid							
Associated Lab San	nples: 60373101	001, 6037310100	2, 6037310	1003, 603	73101004							
			Blar		Reporting							
Paran	neter	Units	Res	ult	Limit	Ana	yzed	Qualifiers	6			
Chloride		mg/kg		ND	1(	00 06/25/2	21 01:29					
LABORATORY CON	NTROL SAMPLE:	2925879										
			Spike	LC	S	LCS	% R	ec				
Paran	neter	Units	Conc.	Res	sult	% Rec	Limi	ts (	Qualifiers			
Chloride		mg/kg	50	0	514	10	8	30-120		_		
MATRIX SPIKE & M		PLICATE: 2925	990		292588	1						
WATRIA SPIRE & W	IATRIA SPIRE DUP	LICATE: 2925	MS	MSD	292000	1						
		60373101001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units		Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/kg	g ND	491	491	506	507	95	95	80-120	0	15	
SAMPLE DUPLICA	FE: 2925882				_							
5		1.1.5.1.5	6037310		Dup	~~	<b>D</b>	Max	0			
Paran	neter	Units	Res		Result	RP	U	RPD	Qualif	iers		
Chloride		mg/kg		ND	46.7	7J		15	5			

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#### **REPORT OF LABORATORY ANALYSIS**

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#### QUALIFIERS

#### Project: MCA 1-A HEADER

Pace Project No.: 60373101

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

### **REPORT OF LABORATORY ANALYSIS**



## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	MCA 1-A HEADER
Pace Project No.:	60373101

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60373101001	WSW-5 (1')	EPA 3546	728402	EPA 8015B	728660
60373101002	FS-2	EPA 3546	728402	EPA 8015B	728660
60373101003	FS-3	EPA 3546	728402	EPA 8015B	728660
60373101004	FS-4	EPA 3546	728402	EPA 8015B	728660
60373101001	WSW-5 (1')	EPA 5035A/5030B	728408	EPA 8015B	728556
60373101002	FS-2	EPA 5035A/5030B	728408	EPA 8015B	728556
60373101003	FS-3	EPA 5035A/5030B	728408	EPA 8015B	728556
60373101004	FS-4	EPA 5035A/5030B	728408	EPA 8015B	728556
60373101001	WSW-5 (1')	EPA 5035A/5030	728413	EPA 8260B	728468
60373101004	FS-4	EPA 5035A/5030	728413	EPA 8260B	728468
60373101002	FS-2	EPA 5035A/5030B	728573	EPA 8260B	728576
60373101003	FS-3	EPA 5035A/5030B	728573	EPA 8260B	728576
60373101001	WSW-5 (1')	ASTM D2974	728415		
60373101002	FS-2	ASTM D2974	728415		
60373101003	FS-3	ASTM D2974	728415		
60373101004	FS-4	ASTM D2974	728415		
60373101001	WSW-5 (1')	EPA 9056	728416	EPA 9056	728621
60373101002	FS-2	EPA 9056	728416	EPA 9056	728621
60373101003	FS-3	EPA 9056	728416	EPA 9056	728621
60373101004	FS-4	EPA 9056	728416	EPA 9056	728621

## **REPORT OF LABORATORY ANALYSIS**

Pace Analytical <sup>*</sup> Sample Condition U	pon Receipt	WO#:60373101
Client Name: Conoco Phillips		
Courier: FedEx UPS UPS VIA Clay F	PEX 🗆 🛛 ECI 🗆	Pace 🗅 Xroads 🗆 Client 🗆 Other 🗅
Tracking #: 50020648 8794 Pac	e Shipping Label Use	d? Yes 🗆 No 🕅
Custody Seal on Cooler/Box Present: Yes 🔯 🛛 No 🗆	Seals intact: Yes	
Packing Material: Bubble Wrap  Bubble Bags	Foam	None D Other 22010
Thermometer Used: T298 Type of	Ice: Way Blue No	Date and initials of person
Cooler Temperature (°C): As-read 1.1 Corr. Factor Temperature should be above freezing to 6°C	or <u>()</u> , <i>()</i> Correc	ted examining contents @24[21_Stz
Chain of Custody present:	Yes No N/A	
Chain of Custody relinquished:	Yes No N/A	
Samples arrived within holding time:		
Short Hold Time analyses (<72hr):		
Rush Turn Around Time requested:		24 HOUR
Sufficient volume:		
Correct containers used:		
Pace containers used:	Yes 🗆 No 🗆 N/A	
Containers intact:		
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No N/A	
Filtered volume received for dissolved tests?		No collection time on Samples
Sample labels match COC: Date / time / ID / analyses	Yes No DN/A	
Samples contain multiple phases? Matrix: 😪	□Yes No □N/A	
Containers requiring pH preservation in compliance? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCI<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	□Yes □No QN/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: Lead acetate strip turns dark? (Record only)	□Yes □No	
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No	
Trip Blank present:	□Yes □No ŊN/A	
Headspace in VOA vials ( >6mm):		
Samples from USDA Regulated Area: State: NM	□Yes No □N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	Yes No 🖎	
Client Notification/ Resolution: Copy COC to		Field Data Required? Y / N
Person Contacted: Date/T	ime:	
Comments/ Resolution:	aii - 510-5	
Project Manager Review:	_ Dat	e:

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.
Corroo Philips     Site Manager:     San       Concoo Philips     Site Manager:     San       MCA 1.A Header     Contract infic:     Project #:     212       Accounts Payable     Pace Analytical     Project #:     212       Accounts Payable     Sampler Signature:     212       MA Acctinum     Sampler Signature:     212       Max Acctinum     Sampler Signature:     212       Max Acctinum     Sampler Signature:     212       Max Acctinum     Sampler Signature:     212       MSWV-5 (1')     S22/2021     10:50       WSWV-5 (1')     S22/2021     10:50       FS-3     6/23/2021     10:20       FS-4     6/23/2021     10:20       Date: <time:< td="">     Pate:     1       Date:<time:< td="">     Received by:     1</time:<></time:<>		E			901 W	est Wa d. Texa	901 West Wall Street, Midland, Texas 79701	t, Suite 100	100												ived b
Number         Site Manager:         Sam Abort           Context tric         Final: Sam about@Montanct.com         Amarks: RECUEST           Context tric         Final: Sam about@Montanct.com         Context tric           Context tric         Final: Sam about@Montanct.com         Context about@Montanct.com           Context tric         Sam about@Montanct.com         Sam about@Montanct.com           Context tric         Sam about@Montanct.com         Sam about@Montanct.com           District         Montant         Sam about@Montanct.com           District         Montant         Sam about@Montanct.com           District         Montant         Sam about@Montanct.com           District         Montant@Montantext.com         Montant@Montantext.com           District         Montant@Montantext.com         Montant@Montantext.com           Distret         Montastret         Sam ab		Tetra Tech, Inc.			(432) 6	82-455	2	x (432)	Tel 682-						B	3	73	10			by OCD.
М.С. 1-1, Hindler         Profile Early Science         Contract Life         Form Early Science         Form Early		Conoco Phillips	Site Manager:	San	Abbot	+				¥	IALY		EQU	EST .		:		,			8/24
Mol Science         Control Market Market Andreade         Product Science         Product Science           2000000000000000000000000000000000000		MCA 1-A Header		Ë	ail: sam one: (51	.abbott 12) 739	@tetrat -7874	tech.cor	L_		-				S C	ecity 		— tho		~	1/20 <del>21</del>
MUCK:         Allower         Allower         Allower           901.Watel Payaba         901.Watel Sheet sale         901.Watel	tion: e)	Lea County, New Mexico	Project #:	212	C-MD-0	2511				T	_										2:16
More:         Peak Analytical         Sampler Sugneture:         John Turation           Peak Analytical         Sampler Sugneture:         Analytical		Accounts Payable 901 West Wall Street, Suite 100 Midland, Texas 79701									(1								()\$		:51 P
OPTITIA         Date:         The second of t	eceiving Laboratory:	Pace Analytical		ä	John TI	nurston				1	оям - (	6H eð	6H 9S						рөцре		M
MULLE         MATTAX         PRESERVATIVE	COPTETR	A Acctnum									_	CA Cr Pb S	Cq CL PP :			070/00		SC	ry (see atta		
SAMPLE IDENTIFICATION         Take: 2001           Care:         Care: <thcare:< th="">         Care:         Care:&lt;</thcare:<>			SAMPLING		VTRIX	PRESI	ERVAT	-		XƏTØ		) 68 8A	e8 sA j	ទមព្រះ	_	_		JT eff			
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June 25, 2021

Sam Abbott Tetra Tech, Inc 8911 N Capital of Texas Hwy #2310 Austin, TX 78759

RE: Project: MCA 1-A HEADER Pace Project No.: 60373103

Dear Sam Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on June 24, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

This Wood

Nolie Wood nolie.wood@pacelabs.com 1(913)563-1401 Project Manager

Enclosures

cc: John Thurston, Tetra Tech-Houston TX



# **REPORT OF LABORATORY ANALYSIS**

Received by OCD: 8/24/2021 2:16:51 PM Pace Analytical<sup>®</sup> www.pacelabs.com

#### CERTIFICATIONS

Project: MCA 1-A HEADER

Pace Project No.: 60373103

#### Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Missouri Inorganic Drinking Water Certification #: 10090 Arkansas Drinking Water Arkansas Certification #: 20-020-0 Arkansas Drinking Water Illinois Certification #: 200030 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212020-2 Oklahoma Certification #: 9205/9935 Florida: Cert E871149 SEKS WET Texas Certification #: T104704407-19-12 Utah Certification #: KS000212019-9 Illinois Certification #: 004592 Kansas Field Laboratory Accreditation: # E-92587 Missouri SEKS Micro Certification: 10070

# **REPORT OF LABORATORY ANALYSIS**



### SAMPLE SUMMARY

Project: MCA 1-A HEADER Pace Project No.: 60373103

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60373103001	ESW-1 (6')	Solid	06/22/21 10:15	06/24/21 08:35
60373103002	FS-5	Solid	06/22/21 10:20	06/24/21 08:35
60373103003	FS-6	Solid	06/22/21 10:25	06/24/21 08:35
60373103004	FS-7	Solid	06/22/21 10:30	06/24/21 08:35
60373103005	FS-8	Solid	06/22/21 10:35	06/24/21 08:35

### **REPORT OF LABORATORY ANALYSIS**



### SAMPLE ANALYTE COUNT

Project: MCA 1-A HEADER

Pace Project No.: 60373103

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60373103001	ESW-1 (6')	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60373103002	FS-5	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60373103003	FS-6	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60373103004	FS-7	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60373103005	FS-8	EPA 8015B	WNM	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

# **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADER

Pace Project No.: 60373103

Sample: ESW-1 (6')	Lab ID: 603	73103001	Collected: 06/22/2	1 10:1	5 Received: 06	6/24/21 08:35 N	/latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Met	nod: EPA 80	15B Preparation Me	thod: E	EPA 3546			
	Pace Analytica	I Services -	Kansas City					
TPH-DRO (C10-C28)	ND	mg/kg	10.1	1	06/24/21 11:05	06/25/21 11:49		
TPH-ORO (C28-C35)	ND	mg/kg	10.1	1	06/24/21 11:05	06/25/21 11:49		
Surrogates								
n-Tetracosane (S)	77	%	31-152	1		06/25/21 11:49		
p-Terphenyl (S)	83	%	46-130	1	06/24/21 11:05	06/25/21 11:49	92-94-4	
Gasoline Range Organics	Analytical Met	nod: EPA 80	15B Preparation Me	thod: E	EPA 5035A/5030B			
	Pace Analytica	I Services -	Kansas City					
TPH-GRO <b>Surrogates</b>	ND	mg/kg	10.4	1	06/24/21 17:45	06/24/21 21:27		
4-Bromofluorobenzene (S)	95	%	63-121	1	06/24/21 17:45	06/24/21 21:27	460-00-4	
8260 MSV 5035A VOA	Analytical Met	nod: EPA 82	260B Preparation Me	thod: E	EPA 5035A/5030			
	Pace Analytica	I Services -	Kansas City					
Benzene	ND	ug/kg	5.0	1	06/24/21 10:40	06/24/21 16:24	71-43-2	
Ethylbenzene	ND	ug/kg	5.0	1	06/24/21 10:40	06/24/21 16:24	100-41-4	
Toluene	ND	ug/kg	5.0	1	06/24/21 10:40	06/24/21 16:24	108-88-3	
Xylene (Total)	ND	ug/kg	5.0	1	06/24/21 10:40	06/24/21 16:24	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	80-120	1		06/24/21 16:24		
4-Bromofluorobenzene (S)	102	%	80-120	1		06/24/21 16:24		
1,2-Dichlorobenzene-d4 (S)	104	%	80-120	1	06/24/21 10:40	06/24/21 16:24	2199-69-1	
Percent Moisture	Analytical Met	nod: ASTM	D2974					
	Pace Analytica	I Services -	Kansas City					
Percent Moisture	2.4	%	0.50	1		06/24/21 10:40		
9056 IC Anions	Analytical Met	nod: EPA 90	56 Preparation Meth	nod: EF	PA 9056			
	Pace Analytica	I Services -	Kansas City					
Chloride	ND	mg/kg	102	10	06/24/21 09:03	06/25/21 04:40	16887-00-6	
Sample: FS-5	Lab ID: 603	73103002	Collected: 06/22/2	1 10:20	0 Received: 06	6/24/21 08:35 N	Aatrix: Solid	

**Sample: FS-5** Lab ID: 60373103002 Collected: 06/22/21 10:20 Received: 06/24/21 08:35 Matrix: Solid **Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.** 

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Met	hod: EPA 801	5B Preparation Me	thod: E	EPA 3546			
	Pace Analytica	al Services - K	ansas City					
TPH-DRO (C10-C28)	ND	mg/kg	10.0	1	06/24/21 11:05	06/25/21 11:57		
TPH-ORO (C28-C35)	ND	mg/kg	10.0	1	06/24/21 11:05	06/25/21 11:57		
Surrogates								
n-Tetracosane (S)	74	%	31-152	1	06/24/21 11:05	06/25/21 11:57	646-31-1	
p-Terphenyl (S)	79	%	46-130	1	06/24/21 11:05	06/25/21 11:57	92-94-4	

## **REPORT OF LABORATORY ANALYSIS**

Date: 06/25/2021 03:14 PM



Project: MCA 1-A HEADER

Pace Project No.: 60373103

Sample: FS-5	Lab ID: 603	7 <b>3103002</b> C	ollected: 06/22/2	1 10:20	Received: 06	/24/21 08:35 N	latrix: Solid	
Results reported on a "dry weight Parameters	t" basis and are adj Results	<b>usted for perc</b> Units	<i>ent moisture, sa</i> Report Limit	mple s DF	<i>ize and any dilut</i> Prepared	f <b>ions.</b> Analyzed	CAS No.	Qua
T arameters		Onits		Ы				
Gasoline Range Organics	Analytical Meth	nod: EPA 8015E	3 Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	I Services - Ka	nsas City					
TPH-GRO	ND	mg/kg	10.3	1	06/24/21 17:45	06/24/21 21:47		
Surrogates								
4-Bromofluorobenzene (S)	94	%	63-121	1	06/24/21 17:45	06/24/21 21:47	460-00-4	
3260 MSV 5035A VOA	Analytical Meth	nod: EPA 8260E	B Preparation Me	thod: E	PA 5035A/5030			
	Pace Analytica	I Services - Ka	nsas City					
Benzene	ND	ug/kg	5.1	1	06/24/21 10:40	06/24/21 16:39	71-43-2	
Ethylbenzene	ND	ug/kg ug/kg	5.1	1		06/24/21 16:39		
Foluene	ND	ug/kg	5.1	1		06/24/21 16:39		
		0 0						
Kylene (Total) <b>Surrogates</b>	ND	ug/kg	5.1	1	00/24/21 10.40	06/24/21 16:39	1330-20-7	
Foluene-d8 (S)	100	%	80-120	1	06/24/21 10:40	06/24/21 16:39	2037-26-5	
I-Bromofluorobenzene (S)	99	%	80-120	1		06/24/21 16:39		
,2-Dichlorobenzene-d4 (S)	102	%	80-120	1	06/24/21 10:40	06/24/21 16:39	2199-09-1	
Percent Moisture	Analytical Meth	nod: ASTM D29	74					
	Pace Analytica	I Services - Ka	nsas City					
Percent Moisture	3.2	%	0.50	1		06/24/21 10:41		
0056 IC Anions	Analytical Meth	nod: EPA 9056	Preparation Meth	nod: EP	A 9056			
	Pace Analytica							
Chloride	ND	mg/kg	103	10	06/24/21 09:03	06/25/21 04:57	16887-00-6	
Shionad		ing/ing	100	10	00/2 //21 00:00	00,20,21 01.01		
ammlas FC C		72402002		4 40.00		04/04 00-05 N	latrice Calial	
•	Lab ID: 603		ollected: 06/22/2				latrix: Solid	
Results reported on a "dry weight	t" basis and are adj	usted for perc	ent moisture, sa	mple s	ize and any dilut	tions.		Oue
•							latrix: Solid CAS No.	Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results	Units	ent moisture, sa	mple s DF	ize and any dilut	tions.		Qua
Results reported on a "dry weight Parameters	t" basis and are adj Results	Units Units nod: EPA 8015E	ent moisture, sa Report Limit Preparation Me	mple s DF	ize and any dilut	tions.		Qua
Results reported on a "dry weight Parameters 015B Diesel Range Organics	t" basis and are adj Results Analytical Meth Pace Analytica	Units Units nod: EPA 8015E I Services - Ka	Report Limit 3 Preparation Mensas City	mple s DF thod: E	ize and any dilut Prepared PA 3546	hions. Analyzed		Qua
Parameters 015B Diesel Range Organics PH-DRO (C10-C28)	t" basis and are adj Results Analytical Meth Pace Analytica 3180	usted for perc Units nod: EPA 8015E I Services - Kat mg/kg	ent moisture, sa Report Limit 3 Preparation Me nsas City 96.6	mple s DF thod: E 10	ize and any dilut Prepared PA 3546 06/24/21 11:05	Analyzed		Qua
Results reported on a "dry weight Parameters 015B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35)	t" basis and are adj Results Analytical Meth Pace Analytica	Units Units nod: EPA 8015E I Services - Ka	Report Limit 3 Preparation Mensas City	mple s DF thod: E	ize and any dilut Prepared PA 3546 06/24/21 11:05	hions. Analyzed		Qua
Parameters Parameters 015B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates	t" basis and are adj Results Analytical Meth Pace Analytica 3180 940	usted for perc Units nod: EPA 8015E I Services - Kat mg/kg mg/kg	Report Limit 3 Preparation Mensas City 96.6 96.6	mple s DF thod: E 10 10	ize and any dilut Prepared PA 3546 06/24/21 11:05 06/24/21 11:05	Analyzed 06/25/21 12:05 06/25/21 12:05	CAS No.	
Results reported on a "dry weight Parameters 015B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates -Tetracosane (S)	t" basis and are adj Results Analytical Meth Pace Analytica 3180 940 0	usted for perc Units nod: EPA 8015E I Services - Kau mg/kg mg/kg %	ent moisture, sa Report Limit 3 Preparation Me nsas City 96.6 96.6 31-152	mple s DF thod: E 10 10 10	ize and any dilut Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	Analyzed 06/25/21 12:05 06/25/21 12:05 06/25/21 12:05	CAS No. 646-31-1	- <u> </u>
Results reported on a "dry weight Parameters 015B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S)	t" basis and are adj Results Analytical Meth Pace Analytica 3180 940	usted for perc Units nod: EPA 8015E I Services - Kat mg/kg mg/kg	Report Limit 3 Preparation Mensas City 96.6 96.6	mple s DF thod: E 10 10	ize and any dilut Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	Analyzed 06/25/21 12:05 06/25/21 12:05	CAS No. 646-31-1	
Results reported on a "dry weight Parameters CO15B Diesel Range Organics PH-DRO (C10-C28) PH-ORO (C28-C35) Surrogates I-Tetracosane (S) D-Terphenyl (S)	t" basis and are adj Results Analytical Meth Pace Analytica 3180 940 0 0	usted for perc Units nod: EPA 8015E I Services - Kan mg/kg mg/kg %	Report Limit Preparation Mensas City 96.6 96.6 31-152 46-130	mple s DF thod: E 10 10 10 10	ize and any dilut Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	Analyzed 06/25/21 12:05 06/25/21 12:05 06/25/21 12:05 06/25/21 12:05	CAS No. 646-31-1	- <u> </u>
Results reported on a "dry weight Parameters 3015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	t" basis and are adj Results Analytical Meth Pace Analytica 3180 940 0 0 0	usted for perc Units nod: EPA 8015E I Services - Kat mg/kg mg/kg % %	ent moisture, sa Report Limit Preparation Mensas City 96.6 96.6 31-152 46-130 8 Preparation Me	mple s DF thod: E 10 10 10 10	ize and any dilut Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	Analyzed 06/25/21 12:05 06/25/21 12:05 06/25/21 12:05 06/25/21 12:05	CAS No. 646-31-1	- <u> </u>
Results reported on a "dry weight Parameters <b>3015B Diesel Range Organics</b> FPH-DRO (C10-C28) FPH-ORO (C28-C35) <b>Surrogates</b> h-Tetracosane (S) h-Tetracosane (S) h-Terphenyl (S) <b>Gasoline Range Organics</b>	t" basis and are adj Results Analytical Meth Pace Analytica 3180 940 0 0 Analytical Meth Pace Analytica	usted for perc Units nod: EPA 8015E I Services - Kar mg/kg % % nod: EPA 8015E I Services - Kar	ent moisture, sa Report Limit Preparation Me hsas City 96.6 96.6 31-152 46-130 B Preparation Me hsas City	mple s DF thod: E 10 10 10 thod: E	ize and any dilut Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B	06/25/21 12:05 06/25/21 12:05 06/25/21 12:05 06/25/21 12:05	CAS No. 646-31-1	- <u> </u>
Results reported on a "dry weight Parameters 3015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) D-Terphenyl (S) Gasoline Range Organics	t" basis and are adj Results Analytical Meth Pace Analytica 3180 940 0 0 0	usted for perc Units nod: EPA 8015E I Services - Kat mg/kg mg/kg % %	ent moisture, sa Report Limit Preparation Mensas City 96.6 96.6 31-152 46-130 8 Preparation Me	mple s DF thod: E 10 10 10 10	ize and any dilut Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B	Analyzed 06/25/21 12:05 06/25/21 12:05 06/25/21 12:05 06/25/21 12:05	CAS No. 646-31-1	- <u> </u>
Sample: FS-6 Results reported on a "dry weight Parameters 3015B Diesel Range Organics 3015B Diesel Range Organics	t" basis and are adj Results Analytical Meth Pace Analytica 3180 940 0 0 Analytical Meth Pace Analytica	usted for perc Units nod: EPA 8015E I Services - Kar mg/kg % % nod: EPA 8015E I Services - Kar	ent moisture, sa Report Limit Preparation Me hsas City 96.6 96.6 31-152 46-130 B Preparation Me hsas City	mple s DF thod: E 10 10 10 thod: E	ize and any dilut Prepared PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45	06/25/21 12:05 06/25/21 12:05 06/25/21 12:05 06/25/21 12:05	CAS No. 646-31-1 92-94-4	

# **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADER

Pace Project No.: 60373103

Sample: FS-6	Lab ID: 603		Collected: 06/22/2	-			latrix: Solid	
Results reported on a "dry weight	-	iusted for p	percent moisture, sa	-	-			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Met	hod: EPA 82	260B Preparation Me	ethod: E	PA 5035A/5030			
	Pace Analytica	al Services -	Kansas City					
Benzene	ND	ug/kg	5.1	1	06/24/21 10:40	06/24/21 16:55	71-43-2	
Ethylbenzene	ND	ug/kg	5.1	1	06/24/21 10:40	06/24/21 16:55	100-41-4	
Toluene	ND	ug/kg	5.1	1	06/24/21 10:40	06/24/21 16:55	108-88-3	
Xylene (Total)	ND	ug/kg	5.1	1	06/24/21 10:40	06/24/21 16:55	1330-20-7	
Surrogates								
Toluene-d8 (S)	98	%	80-120	1		06/24/21 16:55		
4-Bromofluorobenzene (S)	101	%	80-120	1		06/24/21 16:55		
1,2-Dichlorobenzene-d4 (S)	102	%	80-120	1	06/24/21 10:40	06/24/21 16:55	2199-69-1	
Percent Moisture	Analytical Met	hod: ASTM	D2974					
	Pace Analytica	al Services -	Kansas City					
Percent Moisture	2.8	%	0.50	1		06/24/21 10:41		
9056 IC Anions	Analytical Met	hod: EPA 90	056 Preparation Met	hod: EF	PA 9056			
	Pace Analytica		•					
Obleville	2			40	00/04/04 00 00	00/05/04 05 44	40007 00 0	
Chloride	ND	mg/kg	97.0	10	00/24/21 09:03	06/25/21 05:14	10007-00-0	
Sample: FS 7		72402004	Collected: 06/00/	1 40.2	D Dessived: 06	104/04 00:0E	Actrive Colid	
•	Lab ID: 603		Collected: 06/22/2				latrix: Solid	
Results reported on a "dry weight	t" basis and are ad	iusted for p	percent moisture, sa	ample s	ize and any dilu	tions.		Qual
•							fatrix: Solid	Qual
Results reported on a "dry weight Parameters	" basis and are ad, Results	i <b>usted for p</b> Units	percent moisture, sa	DF	ize and any dilut	tions.		Qual
Results reported on a "dry weight Parameters	" basis and are ad, Results	iusted for p Units hod: EPA 80	Dercent moisture, sa Report Limit 015B Preparation Me	DF	ize and any dilut	tions.		Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics	Results Analytical Metl Pace Analytica	Units Units hod: EPA 80 al Services -	Dercent moisture, sa Report Limit 015B Preparation Me Kansas City	DF DF ethod: E	Prepared	tions. Analyzed		Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28)	Results Analytical Metl Pace Analytica 5120	Units Units hod: EPA 80 al Services - mg/kg	Dercent moisture, sa Report Limit 015B Preparation Me Kansas City 101	DF DF ethod: E	Prepared Prepared PA 3546 06/24/21 11:05	tions. Analyzed		Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Results Analytical Metl Pace Analytica	Units Units hod: EPA 80 al Services -	Dercent moisture, sa Report Limit 015B Preparation Me Kansas City	DF DF ethod: E	Prepared Prepared PA 3546 06/24/21 11:05	tions. Analyzed		Qual
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Results Analytical Metl Pace Analytica 5120	Units Units hod: EPA 80 al Services - mg/kg	Dercent moisture, sa Report Limit 015B Preparation Me Kansas City 101	DF DF ethod: E	EPA 3546 06/24/21 11:05 06/24/21 11:05	tions. Analyzed	CAS No.	Qual S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S)	" basis and are adj Results Analytical Metl Pace Analytica 5120 1600	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg	Dercent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101	DF DF ethod: E 10 10	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	tions. Analyzed 06/25/21 12:14 06/25/21 12:14	CAS No. 646-31-1	
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	" basis and are adj Results Analytical Metl Pace Analytica 5120 1600 0 0	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg %	Preparation Me Kansas City 101 101 31-152 46-130	ample s DF ethod: E 10 10 10 10	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14	CAS No. 646-31-1	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S)	" basis and are adj Results Analytical Metl Pace Analytica 5120 1600 0 0	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg % % hod: EPA 8(	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130	ample s DF ethod: E 10 10 10 10	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14	CAS No. 646-31-1	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics	" basis and are adj Results Analytical Meth Pace Analytica 5120 1600 0 0 Analytical Meth Pace Analytica	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg % % hod: EPA 8( al Services -	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130 015B Preparation Me Kansas City	ethod: E	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14	CAS No. 646-31-1	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO	The second secon	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg % % hod: EPA 8(	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130	ample s DF ethod: E 10 10 10 10	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14	CAS No. 646-31-1	S4
Sample: FS-7 Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	" basis and are adj Results Analytical Meth Pace Analytica 5120 1600 0 0 Analytical Meth Pace Analytica	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg % % hod: EPA 8( al Services -	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130 015B Preparation Me Kansas City	ethod: E	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B 06/24/21 17:45	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14	CAS No. 646-31-1 92-94-4	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	" basis and are adj Results Analytical Metl Pace Analytica 5120 1600 0 0 Analytical Metl Pace Analytica ND 93	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg % hod: EPA 8( al Services - mg/kg %	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130 015B Preparation Me Kansas City 10.2 63-121	ample s DF ethod: E 10 10 10 10 ethod: E 1 1	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B 06/24/21 17:45	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 01:47	CAS No. 646-31-1 92-94-4	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	" basis and are adj Results Analytical Metl Pace Analytica 5120 1600 0 0 Analytical Metl Pace Analytica ND 93	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg % hod: EPA 8( al Services - mg/kg %	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130 015B Preparation Me Kansas City 10.2 63-121 260B Preparation Me	ample s DF ethod: E 10 10 10 10 ethod: E 1 1	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B 06/24/21 17:45	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 01:47	CAS No. 646-31-1 92-94-4	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates	" basis and are adj Results Analytical Meth Pace Analytica 5120 1600 0 Analytical Meth Pace Analytica ND 93 Analytical Meth Pace Analytical	iusted for p Units hod: EPA 8( al Services - mg/kg % hod: EPA 8( al Services - mg/kg % hod: EPA 82 al Services -	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130 015B Preparation Me Kansas City 10.2 63-121 260B Preparation Me Kansas City	ethod: E 10 10 10 10 20 20 20 20 20 20 20 20 20 20 20 20 20	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B 06/24/21 17:45 06/24/21 17:45 EPA 5035A/5030B	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 01:47	CAS No. 646-31-1 92-94-4 460-00-4	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene	" basis and are adj Results Analytical Mett Pace Analytica 5120 1600 0 0 Analytical Mett Pace Analytica ND 93 Analytical Mett Pace Analytica ND	iusted for p Units hod: EPA 8( al Services - mg/kg % hod: EPA 8( al Services - mg/kg % hod: EPA 82 al Services - ug/kg	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130 015B Preparation Me Kansas City 10.2 63-121 260B Preparation Me Kansas City 254	2 DF DF 2 thod: E 10 10 10 10 2 thod: E 1 2 thod: E 1	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B 06/24/21 17:45 06/24/21 17:45 EPA 5035A/5030B 06/25/21 07:45	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 01:47 06/25/21 01:47 06/25/21 01:47	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene	" basis and are adj Results Analytical Mett Pace Analytica 5120 1600 0 0 Analytical Mett Pace Analytica ND 93 Analytical Mett Pace Analytica ND ND ND	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg % hod: EPA 8( al Services - mg/kg % hod: EPA 82 al Services - ug/kg ug/kg	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130 015B Preparation Me Kansas City 10.2 63-121 260B Preparation Me Kansas City 254 254	ample s DF ethod: E 10 10 10 10 ethod: E 1 1 ethod: E 1 1	EPA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B 06/24/21 17:45 06/24/21 17:45 06/25/21 07:45 06/25/21 07:45	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 01:47 06/25/21 01:47 06/25/21 01:47	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene	" basis and are adj Results Analytical Mett Pace Analytica 5120 1600 0 0 Analytical Mett Pace Analytica ND 93 Analytical Mett Pace Analytica ND ND ND ND	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg % hod: EPA 8( al Services - mg/kg % hod: EPA 82 al Services - ug/kg ug/kg ug/kg	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130 015B Preparation Me Kansas City 10.2 63-121 260B Preparation Me Kansas City 254 254 254	ample s DF ethod: E 10 10 10 10 ethod: E 1 1 ethod: E 1 1 1 1	Eize and any dilut Prepared Prepared 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B 06/24/21 17:45 06/25/21 07:45 06/25/21 07:45 06/25/21 07:45	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 01:47 06/25/21 01:47 06/25/21 01:47	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	S4
Results reported on a "dry weight Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene	" basis and are adj Results Analytical Mett Pace Analytica 5120 1600 0 0 Analytical Mett Pace Analytica ND 93 Analytical Mett Pace Analytica ND ND ND	iusted for p Units hod: EPA 8( al Services - mg/kg mg/kg % hod: EPA 8( al Services - mg/kg % hod: EPA 82 al Services - ug/kg ug/kg	Percent moisture, sa Report Limit 015B Preparation Me Kansas City 101 101 31-152 46-130 015B Preparation Me Kansas City 10.2 63-121 260B Preparation Me Kansas City 254 254	ample s DF ethod: E 10 10 10 10 ethod: E 1 1 ethod: E 1 1	Eize and any dilut Prepared Prepared 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 EPA 5035A/5030B 06/24/21 17:45 06/25/21 07:45 06/25/21 07:45 06/25/21 07:45	tions. Analyzed 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 12:14 06/25/21 01:47 06/25/21 01:47 06/25/21 01:47	CAS No. 646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	S4

## **REPORT OF LABORATORY ANALYSIS**

Date: 06/25/2021 03:14 PM



Project: MCA 1-A HEADER

Pace Project No.: 60373103

Sample: FS-7	Lab ID: 603	73103004	Collected: 06/22/2	21 10:30	Received: 06	6/24/21 08:35 N	latrix: Solid	
Results reported on a "dry weight	" basis and are adj	iusted for p	ercent moisture, sa	mple s	ize and any dilut	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5035A VOA	Analytical Meth Pace Analytica		60B Preparation Me Kansas City	thod: E	PA 5035A/5030B			
Surrogates								
4-Bromofluorobenzene (S)	98	%	83-119	1		06/25/21 09:27		
1,2-Dichlorobenzene-d4 (S)	102	%		1	06/25/21 07:45	06/25/21 09:27	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM [	02974					
	Pace Analytica	I Services -	Kansas City					
Percent Moisture	1.0	%	0.50	1		06/24/21 10:41		
9056 IC Anions	Analytical Meth	nod: EPA 90	56 Preparation Meth	nod: EP	A 9056			
	Pace Analytica							
Chloride	621	mg/kg	104	10	06/24/21 09:03	06/25/21 05:32	16887-00-6	
	•= ·				00,2 ,,21 00100	00/20/21 00102		
Sample: FS-8	Lab ID: 603	73103005	Collected: 06/22/2	91 10·34	5 Received: 06	24/21 08·35 M	latrix: Solid	
Results reported on a "dry weight								
								<u> </u>
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Parameters 8015B Diesel Range Organics			Report Limit 15B Preparation Me			Analyzed	CAS No.	Qual
		nod: EPA 80	15B Preparation Me			Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Meth Pace Analytica	nod: EPA 80 Il Services -	15B Preparation Me Kansas City		PA 3546		CAS No.	Qual
	Analytical Meth	nod: EPA 80	15B Preparation Me	ethod: E	PA 3546 06/24/21 11:05	Analyzed 06/25/21 13:04 06/25/21 13:04	CAS No.	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Analytical Meth Pace Analytica ND	nod: EPA 80 Il Services - mg/kg	15B Preparation Me Kansas City 9.9	ethod: E	PA 3546 06/24/21 11:05	06/25/21 13:04	CAS No.	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S)	Analytical Meth Pace Analytica ND ND 93	nod: EPA 80 Il Services - mg/kg mg/kg %	15B Preparation Me Kansas City 9.9 9.9 31-152	ethod: E 1 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04	646-31-1	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S)	Analytical Meth Pace Analytica ND ND	nod: EPA 80 Il Services - mg/kg mg/kg	15B Preparation Me Kansas City 9.9 9.9	ethod: E 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	06/25/21 13:04 06/25/21 13:04	646-31-1	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica ND ND 93 99	nod: EPA 80 Il Services - mg/kg mg/kg % %	15B Preparation Me Kansas City 9.9 9.9 31-152	ethod: E 1 1 1 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04	646-31-1	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28)	Analytical Meth Pace Analytica ND ND 93 99	nod: EPA 80 Il Services - mg/kg mg/kg % % nod: EPA 80	15B Preparation Me Kansas City 9.9 9.9 31-152 46-130 15B Preparation Me	ethod: E 1 1 1 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04	646-31-1	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics	Analytical Meth Pace Analytica ND ND 93 99 Analytical Meth Pace Analytica	nod: EPA 80 Il Services - mg/kg mg/kg % % nod: EPA 80 Il Services -	15B Preparation Me Kansas City 9.9 9.9 31-152 46-130 15B Preparation Me Kansas City	ethod: E 1 1 1 1 thod: E	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04	646-31-1	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO	Analytical Meth Pace Analytica ND ND 93 99 Analytical Meth	nod: EPA 80 Il Services - mg/kg mg/kg % % nod: EPA 80	15B Preparation Me Kansas City 9.9 9.9 31-152 46-130 15B Preparation Me	ethod: E 1 1 1 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04	646-31-1	Qua
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates	Analytical Meth Pace Analytica ND ND 93 99 Analytical Meth Pace Analytica	nod: EPA 80 Il Services - mg/kg mg/kg % % nod: EPA 80 Il Services -	15B Preparation Me Kansas City 9.9 9.9 31-152 46-130 15B Preparation Me Kansas City	ethod: E 1 1 1 1 thod: E	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04	646-31-1 92-94-4	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO <i>Surrogates</i> 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica ND ND 93 99 Analytical Meth Pace Analytica ND 98	nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg %	15B Preparation Me Kansas City 9.9 31-152 46-130 15B Preparation Me Kansas City 10.2 63-121	ethod: E 1 1 1 thod: E 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04	646-31-1 92-94-4	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S)	Analytical Meth Pace Analytica ND ND 93 99 Analytical Meth Pace Analytica ND 98 Analytical Meth	nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82	15B Preparation Me Kansas City 9.9 31-152 46-130 15B Preparation Me Kansas City 10.2 63-121 60B Preparation Me	ethod: E 1 1 1 thod: E 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04	646-31-1 92-94-4	Quai
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA	Analytical Meth Pace Analytica ND 93 99 Analytical Meth Pace Analytica ND 98 Analytical Meth Pace Analytica	nod: EPA 80 Il Services - mg/kg % % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 al Services -	15B Preparation Me Kansas City 9.9 31-152 46-130 15B Preparation Me Kansas City 10.2 63-121 60B Preparation Me Kansas City	ethod: E 1 1 1 ethod: E 1 1 ethod: E	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45 06/24/21 17:45 PA 5035A/5030	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/24/21 22:47 06/24/21 22:47	646-31-1 92-94-4 460-00-4	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene	Analytical Meth Pace Analytica ND 93 99 Analytical Meth Pace Analytica ND 98 Analytical Meth Pace Analytica ND	nod: EPA 80 Il Services - mg/kg % % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services - ug/kg	15B Preparation Me Kansas City 9.9 31-152 46-130 15B Preparation Me Kansas City 10.2 63-121 60B Preparation Me Kansas City 5.1	ethod: E 1 1 1 thod: E 1 thod: E 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45 06/24/21 17:45 PA 5035A/5030 06/24/21 10:40	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/24/21 22:47 06/24/21 22:47	646-31-1 92-94-4 460-00-4 71-43-2	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene	Analytical Meth Pace Analytica ND 93 99 Analytical Meth Pace Analytica ND 98 Analytical Meth Pace Analytica ND ND ND	nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services - ug/kg ug/kg	15B Preparation Me Kansas City 9.9 31-152 46-130 15B Preparation Me Kansas City 10.2 63-121 60B Preparation Me Kansas City 5.1 5.1	ethod: E 1 1 1 ethod: E 1 1 ethod: E 1 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45 06/24/21 17:45 PA 5035A/5030 06/24/21 10:40	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/24/21 22:47 06/24/21 22:47 06/24/21 22:47	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4	Qua
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene	Analytical Meth Pace Analytica ND 93 99 Analytical Meth Pace Analytica ND 98 Analytical Meth Pace Analytica ND ND ND ND	nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services - ug/kg ug/kg ug/kg ug/kg	15B Preparation Me Kansas City 9.9 31-152 46-130 15B Preparation Me Kansas City 10.2 63-121 60B Preparation Me Kansas City 5.1 5.1 5.1	ethod: E 1 1 1 ethod: E 1 1 ethod: E 1 1 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45 PA 5035A/5030 06/24/21 10:40 06/24/21 10:40	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/24/21 22:47 06/24/21 22:47 06/24/21 17:10 06/24/21 17:10	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene Xylene (Total)	Analytical Meth Pace Analytica ND 93 99 Analytical Meth Pace Analytica ND 98 Analytical Meth Pace Analytica ND ND ND	nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services - ug/kg ug/kg	15B Preparation Me Kansas City 9.9 31-152 46-130 15B Preparation Me Kansas City 10.2 63-121 60B Preparation Me Kansas City 5.1 5.1	ethod: E 1 1 1 ethod: E 1 1 ethod: E 1 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45 PA 5035A/5030 06/24/21 10:40 06/24/21 10:40	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/24/21 22:47 06/24/21 22:47 06/24/21 22:47	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3	Qua
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates 4-Bromofluorobenzene (S) 8260 MSV 5035A VOA Benzene Ethylbenzene Toluene Xylene (Total) Surrogates	Analytical Meth Pace Analytica ND 93 99 Analytical Meth Pace Analytica ND 98 Analytical Meth Pace Analytica ND ND ND ND ND	nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services - ug/kg ug/kg ug/kg ug/kg	15B Preparation Me Kansas City 9.9 9.9 31-152 46-130 15B Preparation Me Kansas City 10.2 63-121 60B Preparation Me Kansas City 5.1 5.1 5.1 5.1	ethod: E 1 1 1 1 ethod: E 1 1 1 1 1 1 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45 PA 5035A/5030 06/24/21 10:45 PA 5035A/5030	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/24/21 22:47 06/24/21 22:47 06/24/21 17:10 06/24/21 17:10 06/24/21 17:10	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7	Qual
8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S)	Analytical Meth Pace Analytica ND 93 99 Analytical Meth Pace Analytica ND 98 Analytical Meth Pace Analytica ND ND ND ND	nod: EPA 80 Il Services - mg/kg mg/kg % nod: EPA 80 Il Services - mg/kg % nod: EPA 82 Il Services - ug/kg ug/kg ug/kg ug/kg	15B Preparation Me Kansas City 9.9 31-152 46-130 15B Preparation Me Kansas City 10.2 63-121 60B Preparation Me Kansas City 5.1 5.1 5.1	ethod: E 1 1 1 ethod: E 1 1 ethod: E 1 1 1 1	PA 3546 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 06/24/21 11:05 PA 5035A/5030B 06/24/21 17:45 PA 5035A/5030 06/24/21 10:40 06/24/21 10:40 06/24/21 10:40 06/24/21 10:40	06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/25/21 13:04 06/24/21 22:47 06/24/21 22:47 06/24/21 17:10 06/24/21 17:10	646-31-1 92-94-4 460-00-4 71-43-2 100-41-4 108-88-3 1330-20-7 2037-26-5	Qual

# **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADER

Pace Project No.: 60373103

Sample: FS-8	Lab ID: 6037	3103005	Collected: 06/22/2	1 10:3	5 Received: 06	6/24/21 08:35 N	latrix: Solid	
Results reported on a "dry weig	ght" basis and are adju	sted for pe	rcent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Meth Pace Analytical							
Percent Moisture	2.5	%	0.50	1		06/24/21 10:41		
9056 IC Anions	Analytical Mether Pace Analytical		6 Preparation Meth	nod: EF	PA 9056			
Chloride	ND	mg/kg	105	10	06/24/21 09:03	06/25/21 06:24	16887-00-6	

## **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-	A HEADER											
Pace Project No.: 603731	03											
QC Batch: 72840	8		Analy	sis Metho	d: E	PA 8015B						
QC Batch Method: EPA 5	035A/5030B		Analy	/sis Descri	ption: G	asoline Ra	nge Orgar	nics				
			Labo	ratory:	Р	ace Analytic	cal Service	es - Kansa	s City			
Associated Lab Samples:	6037310300	1, 6037310300	2, 6037310	3003, 603	73103004, 6	037310300	5					
METHOD BLANK: 292580	9			Matrix: So	olid							
Associated Lab Samples:	6037310300	1, 6037310300	2, 6037310	3003, 603	73103004, 6	037310300	5					
			Blar	nk	Reporting							
Parameter		Units	Res	ult	Limit	Analy	zed	Qualifier	S			
				ND	10.0	06/24/21	19:27					
TPH-GRO		mg/kg		ND								
TPH-GRO 4-Bromofluorobenzene (S)		mg/kg %		95	63-121	06/24/21	19:27					
						06/24/21	19:27					
4-Bromofluorobenzene (S)	AMPLE: 2	%				06/24/21	19:27					
	AMPLE: 29		Spike		63-121	06/24/21 LCS	19:27 % R	ec				
4-Bromofluorobenzene (S)	AMPLE: 2	%	Spike Conc.	95	63-121 S				Qualifiers			
4-Bromofluorobenzene (S)	AMPLE: 24	% 925810 Units	Conc.	95 	63-121 S	LCS	% Ro Limi		Qualifiers			
4-Bromofluorobenzene (S) LABORATORY CONTROL S Parameter		925810	Conc.	95 LC Res	63-121	LCS % Rec	% Ri Limi 7	ts	Qualifiers			
4-Bromofluorobenzene (S) LABORATORY CONTROL S Parameter TPH-GRO		% 925810 Units mg/kg	Conc.	95 LC Res	63-121	LCS % Rec 101	% Ri Limi 7	ts 71-107	Qualifiers			
4-Bromofluorobenzene (S) LABORATORY CONTROL S Parameter TPH-GRO		% 925810 Units mg/kg %	5	95 LC Res	63-121	LCS % Rec 101	% Ri Limi 7	ts 71-107	Qualifiers			
4-Bromofluorobenzene (S) LABORATORY CONTROL S Parameter TPH-GRO 4-Bromofluorobenzene (S)		% 925810 Units mg/kg %	5	95 LC Res	63-121	LCS % Rec 101	% Ri Limi 7	ts 71-107	Qualifiers			
4-Bromofluorobenzene (S) LABORATORY CONTROL S Parameter TPH-GRO 4-Bromofluorobenzene (S)		% 925810 Units mg/kg %	Conc. 5	95 	63-121	LCS % Rec 101	% Ri Limi 7	ts 71-107	Qualifiers % Rec	_	Max	
4-Bromofluorobenzene (S) LABORATORY CONTROL S Parameter TPH-GRO 4-Bromofluorobenzene (S)		% 925810 Units mg/kg % CATE: 2925	811 MS	95 LC Res 0 MSD	63-121	LCS % Rec 101 99	% Ri Limi 7 6	ts 71-107 53-121		RPD	Max RPD	Qual
4-Bromofluorobenzene (S) LABORATORY CONTROL S Parameter TPH-GRO 4-Bromofluorobenzene (S) MATRIX SPIKE & MATRIX S		% 925810 Units mg/kg % CATE: 2925 60373103005	811 MS Spike	95 LC Res 0 MSD Spike	63-121 CS Sult 50.4 2925812 MS	LCS % Rec 101 99 MSD	% Re Limi 7 6 MS	ts 71-107 53-121 MSD	% Rec Limits		RPD	Qual

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### **REPORT OF LABORATORY ANALYSIS**

Date: 06/25/2021 03:14 PM



Project:	MCA 1-A HEADE	R						
Pace Project No.:	60373103							
QC Batch:	728413		Analysis Me	thod: E	PA 8260B			
QC Batch Method:	EPA 5035A/503	0	Analysis De	scription: 8	260 MSV 5	035A Volatil	e Organics	
			Laboratory:	F	Pace Analyti	ical Services	- Kansas City	
Associated Lab Sar	mples: 60373103	3001, 6037310300	2, 60373103003, 6	60373103005				
METHOD BLANK:	2925835		Matrix	Solid				
Associated Lab Sar	mples: 60373103	3001, 6037310300	2, 60373103003, 6	60373103005				
			Blank	Reporting				
Parar	neter	Units	Result	Limit	Analy	zed	Qualifiers	
Benzene		ug/kg	ND	5.0	0 06/24/21	I 13:01		
Ethylbenzene		ug/kg	ND	5.0	06/24/21	1 13:01		
Toluene		ug/kg	ND	5.0	06/24/21	1 13:01		
Xylene (Total)		ug/kg	ND	5.0	06/24/21	1 13:01		
1,2-Dichlorobenzen	e-d4 (S)	%	102	80-120	06/24/21	1 13:01		
4-Bromofluorobenze	ene (S)	%	103	85-115	5 06/24/21	1 13:01		
Toluene-d8 (S)		%	99	80-120	06/24/21	13:01		
LABORATORY CO	NTROL SAMPLE:	2925836						
			Spike	LCS	LCS	% Rec	;	
Parar	neter	Units	Conc.	Result	% Rec	Limits	Qualifiers	

		Opine	LOO	LOO	70 1100	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/kg	100	101	101	80-120	
Ethylbenzene	ug/kg	100	98.9	99	80-120	
Toluene	ug/kg	100	97.5	98	80-120	
Xylene (Total)	ug/kg	300	296	99	80-120	
1,2-Dichlorobenzene-d4 (S)	%			100	80-120	
4-Bromofluorobenzene (S)	%			100	85-115	
Toluene-d8 (S)	%			100	80-120	

MATRIX SPIKE & MATRIX SP					2925838							
Parameter	Units	60372659003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	117	115	87.8	95.8	75	83	35-120	9	35	
Ethylbenzene	ug/kg	ND	117	115	79.2	86.2	67	74	35-120	8	35	
Toluene	ug/kg	ND	117	115	83.1	90.2	70	77	35-120	8	35	
Xylene (Total)	ug/kg	ND	350	346	238	256	68	74	35-120	7	35	
1,2-Dichlorobenzene-d4 (S)	%						101	101	80-120		3	
4-Bromofluorobenzene (S)	%						101	99	85-115		20	
Toluene-d8 (S)	%						99	99	80-120		20	

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#### **REPORT OF LABORATORY ANALYSIS**

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Project: MCA 1	-A HEADER
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Pace Project No.: 60373103						
QC Batch: 728573		Analysis Meth	nod: EF	PA 8260B		
QC Batch Method: EPA 5035	A/5030B	Analysis Desc	cription: 82	60 MSV 5035A Vol	atile Organics	
		Laboratory:	Pa	ice Analytical Servio	ces - Kansas City	
Associated Lab Samples: 603	373103004					
METHOD BLANK: 2926509		Matrix:	Solid			
Associated Lab Samples: 603	373103004					
		Blank	Reporting			
Parameter	Units	Result	Limit	Analyzed	Qualifiers	
Benzene	ug/kg	ND	250	06/25/21 08:40		
Ethylbenzene	ug/kg	ND	250	06/25/21 08:40		
Toluene	ug/kg	ND	250	06/25/21 08:40		
Xylene (Total)	ug/kg	ND	250	06/25/21 08:40		
1,2-Dichlorobenzene-d4 (S)	%	101		06/25/21 08:40		
4-Bromofluorobenzene (S)	%	104	83-119	06/25/21 08:40		
Toluene-d8 (S)	%	99	80-120	06/25/21 08:40		

#### LABORATORY CONTROL SAMPLE: 2926510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	5000	4510	90	73-117	
Ethylbenzene	ug/kg	5000	4670	93	73-121	
Toluene	ug/kg	5000	4500	90	77-119	
Xylene (Total)	ug/kg	15000	13700	92	76-119	
1,2-Dichlorobenzene-d4 (S)	%			101		
4-Bromofluorobenzene (S)	%			96	83-119	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLI	CATE: 2926	511		2926512							
			MS	MSD								
	6	0373103004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/kg	ND	5070	5070	4730	4780	93	94	17-134	1	53	
Ethylbenzene	ug/kg	ND	5070	5070	4920	5050	97	100	10-137	3	60	
Toluene	ug/kg	ND	5070	5070	4770	4920	94	97	13-131	3	60	
Xylene (Total)	ug/kg	ND	15300	15300	14600	14800	96	98	10-137	2	58	
1,2-Dichlorobenzene-d4 (S)	%						99	100				
4-Bromofluorobenzene (S)	%						101	102	83-119			
Toluene-d8 (S)	%						101	100	80-120			

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#### **REPORT OF LABORATORY ANALYSIS**

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	MCA 1-A HEADEF	K										
Pace Project No.:	60373103											
QC Batch:	728402		Analy	sis Metho	d: E	PA 8015B						
QC Batch Method:	EPA 3546		Analy	sis Descri	ption: E	PA 8015B						
			Labo	ratory:	Р	ace Analytic	cal Servic	es - Kansa	s City			
Associated Lab San	nples: 60373103	001, 6037310300	2, 6037310	3003, 603	73103004, 6	037310300	5					
METHOD BLANK:	2925757			Matrix: So	olid							
Associated Lab San	nples: 60373103	001, 6037310300	2, 6037310	3003, 603 <sup>-</sup>	73103004, 6	037310300	5					
			Blar	nk	Reporting							
Paran	neter	Units	Res	ult	Limit	Analy	zed	Qualifier	S			
TPH-DRO (C10-C2	8)	mg/kg		ND	9.8	06/25/21	10:43					
TPH-ORO (C28-C3	5)	mg/kg		ND	9.8	06/25/21	10:43					
n-Tetracosane (S)		%		106	31-152							
p-Terphenyl (S)		%		112	46-130	06/25/21	10.45					
LABORATORY COM	NTROL SAMPLE:	2925758										
			Spike	LC	-	LCS	% R					
LABORATORY COM		2925758 Units	Spike Conc.	LC	-	LCS % Rec	% R Lim		Qualifiers			
	neter		•	Res	-		Lim		Qualifiers			
Paran TPH-DRO (C10-C20 n-Tetracosane (S)	neter	Units	Conc.	Res	sult	% Rec 92 107	Lim	its 74-124 31-152	Qualifiers			
Paran TPH-DRO (C10-C2	neter	Units mg/kg	Conc.	Res	sult	% Rec 92	Lim	its	Qualifiers			
Paran TPH-DRO (C10-C26 n-Tetracosane (S) p-Terphenyl (S)	neter 8)	Units mg/kg % %	Conc. 81.	 9	sult	% Rec 92 107	Lim	its 74-124 31-152	Qualifiers			
Paran TPH-DRO (C10-C2i n-Tetracosane (S) p-Terphenyl (S)	neter 8)	Units mg/kg % %	Conc. 81. 759 MS	9 MSD	2925760	% Rec 92 107 116	Lim	its 74-124 31-152 46-130				
Paran TPH-DRO (C10-C2a n-Tetracosane (S) p-Terphenyl (S) MATRIX SPIKE & M	neter 8) IATRIX SPIKE DUF	Units mg/kg % % PLICATE: 2925 60373101001	Conc. 81. 759 MS Spike	9 MSD Spike	2925760 MS	% Rec 92 107 116 MSD	MS	its 74-124 31-152 46-130 MSD	% Rec	_	Max	
Paran TPH-DRO (C10-C20 n-Tetracosane (S)	neter 8) IATRIX SPIKE DUF	Units mg/kg % % PLICATE: 2925 60373101001	Conc. 81. 759 MS	9 MSD	2925760	% Rec 92 107 116	Lim	its 74-124 31-152 46-130		RPD	Max RPD	Qual
Paran TPH-DRO (C10-C2a n-Tetracosane (S) p-Terphenyl (S) MATRIX SPIKE & M	neter 8) IATRIX SPIKE DUF rUnits	Units mg/kg % % PLICATE: 2925 60373101001 Result	Conc. 81. 759 MS Spike	9 MSD Spike	2925760 MS	% Rec 92 107 116 MSD	MS	its 74-124 31-152 46-130 MSD	% Rec Limits		RPD	Qual

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46-130

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#### **REPORT OF LABORATORY ANALYSIS**

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p-Terphenyl (S)

%



Project:	MCA 1-A HEADER						
Pace Project No.:	60373103						
QC Batch:	728415		Analysis Meth	nod: AS	STM D2974		
QC Batch Method:	ASTM D2974		Analysis Desc	cription: Dr	y Weight/Percent	Moisture	
			Laboratory:	Pa	ace Analytical Servi	ices - Kansas (	City
Associated Lab Sa	mples: 603731030	01, 6037310300	02, 60373103003, 60	0373103004, 60	0373103005		
METHOD BLANK:	2925848		Matrix:	Solid			
Associated Lab Sa	mples: 602721020	11 6037310300	2, 60373103003, 60	373103004 60	373103005		
Associated Lab Sa	ipies. 0037310300	JI, 0037310300	2,00010100000,00	000004, 00004	010100000		
ASSOCIATED LAD SA	Tiples. 003731030	51,0057510500	Blank	Reporting			
	neter	Units		-	Analyzed	Qualifiers	
			Blank	Reporting		Qualifiers	_
Para		Units	Blank Result	Reporting Limit	Analyzed	Qualifiers	_
Para	neter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers	_
Para Percent Moisture	neter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers	_
Para Percent Moisture SAMPLE DUPLICA	neter	Units	Blank Result ND	Reporting Limit 0.50	Analyzed		Qualifiers

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### **REPORT OF LABORATORY ANALYSIS**

Date: 06/25/2021 03:14 PM



Project:	MCA 1-A HEA	DER										
Pace Project No.:	60373103											
QC Batch:	728416		Analy	sis Metho	d: I	EPA 9056						
QC Batch Method:	EPA 9056		Analy	Analysis Description:			ons					
			Labo	ratory:	1	Pace Analyt	ical Service	es - Kansas	s City			
Associated Lab San	nples: 60373	3103001, 603731030	02, 6037310	3003, 603	73103004,	603731030	05					
METHOD BLANK:	2925878			Matrix: So	olid							
Associated Lab San	nples: 60373	3103001, 603731030	02, 6037310	3003, 603	73103004,	603731030	05					
			Blar	nk	Reporting							
Param	neter	Units	Res	ult	Limit	Analy	yzed	Qualifiers	S			
Chloride		mg/kg		ND	10	0 06/25/2	1 01:29					
LABORATORY CON	NTROL SAMPL	E: 2925879										
			Spike	LC	s	LCS	% R	ec				
Param	neter	Units	Conc.	Res	sult	% Rec	Limi	ts (	Qualifiers			
Chloride		mg/kg	50	0	514	10	3 8	30-120				
MATRIX SPIKE & M	IATRIX SPIKE	DUPLICATE: 2928		MOD	2925881							
		60373101001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	· .	Jnits Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	n	ng/kg ND	491	491	506	507	95	95	80-120	0	15	
SAMPLE DUPLICA	TE: 2925882											
			6037310		Dup			Max				
Paran	neter	Units	Res	ult	Result	RPI	)	RPD	Qualif	iers		
Chloride		mg/kg		ND	46.7	J		15	5			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/25/2021 03:14 PM

Released to Imaging: 8/30/2021 11:23:11 AM



#### QUALIFIERS

#### Project: MCA 1-A HEADER

Pace Project No.: 60373103

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

### **REPORT OF LABORATORY ANALYSIS**



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	MCA 1-A HEADER
Pace Project No .:	60373103

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60373103001	ESW-1 (6')	EPA 3546	728402	EPA 8015B	728660
60373103002	FS-5	EPA 3546	728402	EPA 8015B	728660
60373103003	FS-6	EPA 3546	728402	EPA 8015B	728660
60373103004	FS-7	EPA 3546	728402	EPA 8015B	728660
60373103005	FS-8	EPA 3546	728402	EPA 8015B	728660
60373103001	ESW-1 (6')	EPA 5035A/5030B	728408	EPA 8015B	728556
60373103002	FS-5	EPA 5035A/5030B	728408	EPA 8015B	728556
60373103003	FS-6	EPA 5035A/5030B	728408	EPA 8015B	728556
60373103004	FS-7	EPA 5035A/5030B	728408	EPA 8015B	728556
60373103005	FS-8	EPA 5035A/5030B	728408	EPA 8015B	728556
60373103001	ESW-1 (6')	EPA 5035A/5030	728413	EPA 8260B	728468
60373103002	FS-5	EPA 5035A/5030	728413	EPA 8260B	728468
60373103003	FS-6	EPA 5035A/5030	728413	EPA 8260B	728468
60373103005	FS-8	EPA 5035A/5030	728413	EPA 8260B	728468
60373103004	FS-7	EPA 5035A/5030B	728573	EPA 8260B	728576
60373103001	ESW-1 (6')	ASTM D2974	728415		
60373103002	FS-5	ASTM D2974	728415		
60373103003	FS-6	ASTM D2974	728415		
60373103004	FS-7	ASTM D2974	728415		
60373103005	FS-8	ASTM D2974	728415		
60373103001	ESW-1 (6')	EPA 9056	728416	EPA 9056	728621
60373103002	FS-5	EPA 9056	728416	EPA 9056	728621
60373103003	FS-6	EPA 9056	728416	EPA 9056	728621
60373103004	FS-7	EPA 9056	728416	EPA 9056	728621
60373103005	FS-8	EPA 9056	728416	EPA 9056	728621

#### **REPORT OF LABORATORY ANALYSIS**

0		WO#:60373103
Pace Analytical Sample Condition U	pon Receipt	
		60373103
TetraTech		
Client Name: Conco Phillips		
Courier: FedEx 🔯 UPS 🗆 VIA 🗆 Clay 🗆 F		Pace 🗌 Xroads 🗆 Client 🗆 Other 🗆
Tracking #: 5002 OLH8 87Lel Pac	e Shipping Label Used	1? Yes □ No 🔽
Custody Seal on Cooler/Box Present: Yes 🗆 🛛 No 🕅	Seals intact: Yes 🗆	
Packing Material: Bubble Wrap 🗆 Bubble Bags 🕅	Foam 🗆	None Other Zpic
Thermometer Used: T298 Type of	Ice: Blue Nor	
Cooler Temperature (°C): As-read 3.4 Corr. Facto	orO.O Correct	ed 3.4 Date and initials of person examining contents 24/21/21/21
Temperature should be above freezing to 6°C		
Chain of Custody present:	Yes DNo DN/A	
Chain of Custody relinquished:		
Samples arrived within holding time:	Yes DNo DN/A	
Short Hold Time analyses (<72hr):		
Rush Turn Around Time requested:		24 HOUR
Sufficient volume:	Yes No N/A	
Correct containers used:	Yes No N/A	
Pace containers used:		
Containers intact:		
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No \N/A	
Filtered volume received for dissolved tests?	TYes No N/A	
Sample labels match COC: Date / time / ID / analyses	Yes No ON/A	Collection time not on samples
Samples contain multiple phases? Matrix:	□Yes No □N/A	,
Containers requiring pH preservation in compliance?	□Yes □No ♪N/A	List sample IDs, volumes, lot #'s of preservative and the
(HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Evcentions: VOA Micro 08G KS TPH OK-DRO) LOT#	s	date/time added.
(Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#		
Lead acetate strip turns dark? (Record only)	□Yes □No	
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No	
Trip Blank present:	□Yes □No N/A	
Headspace in VOA vials ( >6mm):	□Yes □No \N/A	
Samples from USDA Regulated Area: State:	□Yes □No N/A	
Additional labels attached to 5035A / TX1005 vials in the field?		
Client Notification/ Resolution: Copy COC to	Client? Y / N	Field Data Required? Y / N
Person Contacted: Date/T	ime:	
Comments/ Resolution:		
Project Manager Review:	Date	

F-KS-C-003-Rev.11, February 28, 2018

/ Record
of Custody
of Chain of
Request (
alysis

Analysis Request of Chain of Custody Record       Image: Second	Lage:	901 West Wall Street, Suite 100 Midland, Texas 79701 (432) 682-4559 Fax (432) 682-	ANALYSIS REQUEST	Email: sam.abbott@tetratech.com (Circle or Specify Method No.)		Project #: 212C-MD-02511	))	Sampler Signature: John Thurston	5 280 - 280	000,000 000,000,000 000,000000	(V) BTEX Xt to C3 Rt o C3 Rt o C3 As Ba C bs Ba C As C As C As C As C As C As C As C As	D (Y) D (Y)	PATER PATER PATER PATER PALIC PALION PATER PALICA P	X V V V V V V V V V V V V V V V V V V V	6/22/2021 10:20 X X X X X X X X X	6/22/2021 10:25 X X X X X X X	6/22/2021 10:30 X X X X X X X X X	6/22/2021 10:35 X X X X X X X X			Bate: Time:	2 MILL TWUMMER (124 21 0835 ONLY V BIRH SAMPAN 24 M BH 73 M	37.) A rout. Jaire of Anon. Jaire of Anon. Jaire of Anon.	Received by: Date: Time: J. N. Brecial Report Limits or TRRP Report	
	of Custody Record	901 West Wall Stre Midland, Texas 79 (432) 682-4559	Site Manager: Sam Abbott		Contact Info:	Project #:	ts Payable est Wall Street, Suite 100 Midland, Texas 79701	Sampler Signature:		F	MPLING MATRIX	YEAR: 2021	DATE MATER SOIL HCL HCL HCL	6/22/2021 10:15 X	6/22/2021 10:20 X	6/22/2021 10:25 X	6/22/2021 10:30 X	6/22/2021 10:35 X			Time: Received by: Date: Ti	The production two lines (1)		Time: Received by: Date:	



June 29, 2021

Sam Abbott Tetra Tech, Inc 8911 N Capital of Texas Hwy #2310 Austin, TX 78759

RE: Project: MCA 1-A HEADER Pace Project No.: 60373379

Dear Sam Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on June 26, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jami Church

Jamie Church for Nolie Wood nolie.wood@pacelabs.com 1(913)563-1401 Project Manager

Enclosures

cc: John Thurston, Tetra Tech-Houston TX



# **REPORT OF LABORATORY ANALYSIS**

Received by OCD: 8/24/2021 2:16:51 PM Pace Analytical<sup>®</sup> www.pacelabs.com

#### CERTIFICATIONS

Project: MCA 1-A HEADER

Pace Project No.: 60373379

#### Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Missouri Inorganic Drinking Water Certification #: 10090 Arkansas Drinking Water Arkansas Certification #: 20-020-0 Arkansas Drinking Water Illinois Certification #: 200030 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212020-2 Oklahoma Certification #: 9205/9935 Florida: Cert E871149 SEKS WET Texas Certification #: T104704407-19-12 Utah Certification #: KS000212019-9 Illinois Certification #: 004592 Kansas Field Laboratory Accreditation: # E-92587 Missouri SEKS Micro Certification: 10070

# **REPORT OF LABORATORY ANALYSIS**



### SAMPLE SUMMARY

Project: MCA 1-A HEADER

Pace Project No.: 60373379

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60373379001	FS-1	Solid	06/24/21 10:15	06/26/21 08:40
60373379002	FS-9	Solid	06/24/21 10:20	06/26/21 08:40

# **REPORT OF LABORATORY ANALYSIS**



### SAMPLE ANALYTE COUNT

Project: MCA 1-A HEADER Pace Project No.: 60373379

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60373379001	FS-1	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K
60373379002	FS-9	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	RAD	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	CRN2	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

### **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADER

Pace Project No.: 60373379

Sample: FS-1	Lab ID: 603	73379001	Collected: 06/24/2	21 10:1	5 Received: 06	6/26/21 08:40 N	latrix: Solid	
Results reported on a "dry weight	" basis and are ad	justed for pe	rcent moisture, sa	mple s	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8015B Diesel Range Organics	Analytical Met	hod: EPA 801	5B Preparation Me	ethod: E	EPA 3546			
	Pace Analytica	al Services - k	Cansas City					
TPH-DRO (C10-C28)	25.0	mg/kg	10.8	1	06/28/21 13:49	06/29/21 11:15		M1
TPH-ORO (C28-C35)	ND	mg/kg	10.8	1	06/28/21 13:49	06/29/21 11:15		
Surrogates								
n-Tetracosane (S)	94	%	31-152	1		06/29/21 11:15		
p-Terphenyl (S)	83	%	46-130	1	06/28/21 13:49	06/29/21 11:15	92-94-4	
Gasoline Range Organics	Analytical Met	hod: EPA 801	5B Preparation Me	ethod: E	EPA 5035A/5030B			
	Pace Analytica	al Services - k	ansas City					
TPH-GRO	ND	mg/kg	11.2	1	06/28/21 17:32	06/29/21 00:09		
Surrogates	ND	iiig/kg	11.2	'	00/20/21 17:02	00/20/21 00:00		
4-Bromofluorobenzene (S)	91	%	63-121	1	06/28/21 17:32	06/29/21 00:09	460-00-4	
8260 MSV 5035A VOA	Analytical Met	hod: EPA 826	0B Preparation Me	ethod: E	EPA 5035A/5030			
	Pace Analytica							
Benzene	ND	ug/kg	5.4	1	06/28/21 11:23	06/28/21 13:36	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1	06/28/21 11:23	06/28/21 13:36	100-41-4	
Toluene	ND	ug/kg	5.4	1	06/28/21 11:23	06/28/21 13:36	108-88-3	
Xylene (Total)	ND	ug/kg	5.4	1	06/28/21 11:23	06/28/21 13:36	1330-20-7	
Surrogates								
Toluene-d8 (S)	103	%	80-120	1		06/28/21 13:36		
4-Bromofluorobenzene (S)	104	%	80-120	1		06/28/21 13:36		
1,2-Dichlorobenzene-d4 (S)	103	%	80-120	1	06/28/21 11:23	06/28/21 13:36	2199-69-1	
Percent Moisture	Analytical Met	hod: ASTM D	2974					
	Pace Analytica	al Services - K	ansas City					
Percent Moisture	9.4	%	0.50	1		06/28/21 09:13		
9056 IC Anions	Analytical Met	hod: EPA 905	6 Preparation Met	nod: EF	PA 9056			
	Pace Analytica	al Services - K	ansas City					
Chloride	ND	mg/kg	110	10	06/28/21 06:26	06/28/21 16:27	16887-00-6	
Sample: FS-9	Lab ID: 603	73379002	Collected: 06/24/2	21 10:2	0 Received: 06	6/26/21 08:40 N	latrix: Solid	

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Met	hod: EPA 801	5B Preparation Me	ethod: E	EPA 3546			
	Pace Analytica	al Services - K	ansas City					
TPH-DRO (C10-C28)	104	mg/kg	11.1	1	06/28/21 13:49	06/29/21 11:40		
TPH-ORO (C28-C35)	24.9	mg/kg	11.1	1	06/28/21 13:49	06/29/21 11:40		
Surrogates								
n-Tetracosane (S)	127	%	31-152	1	06/28/21 13:49	06/29/21 11:40	646-31-1	
p-Terphenyl (S)	99	%	46-130	1	06/28/21 13:49	06/29/21 11:40	92-94-4	

## **REPORT OF LABORATORY ANALYSIS**

Date: 06/29/2021 04:51 PM



Project: MCA 1-A HEADER

Pace Project No.: 60373379

Sample: FS-9	Lab ID: 603	73379002	Collected: 06/24/2	21 10:2	0 Received: 06	6/26/21 08:40 N	Aatrix: Solid	
Results reported on a "dry weigh	ht" basis and are adj	usted for p	ercent moisture, sa	mple :	size and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics	Analytical Mether	nod: EPA 80	15B Preparation Me	ethod: I	EPA 5035A/5030B			
	Pace Analytica	I Services -	Kansas City					
TPH-GRO <i>Surrogates</i>	ND	mg/kg	12.3	1	06/28/21 17:32	06/29/21 00:25		
4-Bromofluorobenzene (S)	90	%	63-121	1	06/28/21 17:32	06/29/21 00:25	460-00-4	
8260 MSV 5035A VOA	Analytical Mether	nod: EPA 82	60B Preparation Me	ethod: I	EPA 5035A/5030			
	Pace Analytica	I Services -	Kansas City					
Benzene	ND	ug/kg	5.7	1	06/28/21 11:23	06/28/21 13:51	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1	06/28/21 11:23	06/28/21 13:51	100-41-4	
Toluene	ND	ug/kg	5.7	1	06/28/21 11:23	06/28/21 13:51	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1	06/28/21 11:23	06/28/21 13:51	1330-20-7	
Surrogates								
Toluene-d8 (S)	104	%	80-120	1	06/28/21 11:23		2037-26-5	
4-Bromofluorobenzene (S)	105	%	80-120	1	06/28/21 11:23	06/28/21 13:51	460-00-4	
1,2-Dichlorobenzene-d4 (S)	104	%	80-120	1	06/28/21 11:23	06/28/21 13:51	2199-69-1	
Percent Moisture	Analytical Mether	nod: ASTM I	D2974					
	Pace Analytica	l Services -	Kansas City					
Percent Moisture	13.7	%	0.50	1		06/28/21 09:13		
9056 IC Anions	Analytical Mether	nod: EPA 90	56 Preparation Met	hod: El	PA 9056			
	Pace Analytica	I Services -	Kansas City					
Chloride	123	mg/kg	116	10	06/28/21 06:26	06/28/21 17:19	16887-00-6	

## **REPORT OF LABORATORY ANALYSIS**



Project: MCA 1-A HEADE Pace Project No.: 60373379	R						
QC Batch: 728677		Analysis	Method:	EPA 8015B			
QC Batch Method: EPA 5035A/503	0B	Analysis	Description:	Gasoline Rang	e Organics		
		Laborato	ry:	Pace Analytica	l Services - Ka	nsas City	
Associated Lab Samples: 6037337	9001, 60373379002						
METHOD BLANK: 2926810		Mat	trix: Solid				
Associated Lab Samples: 6037337	9001, 60373379002						
		Blank	Reportin	g			
Parameter	Units	Result	Limit	Analyze	d Qual	ifiers	
TPH-GRO	mg/kg	١	ND	10.0 06/28/21 2	2:21		
4-Bromofluorobenzene (S)	%		86 63-	121 06/28/21 2	2:21		
	0000044						
LABORATORY CONTROL SAMPLE:	2926811	Spike	LCS	LCS	% Rec		
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers	
TPH-GRO	 mg/kg	50	46.9	94	71-107		
4-Bromofluorobenzene (S)	%			91	63-121		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### **REPORT OF LABORATORY ANALYSIS**

Date: 06/29/2021 04:51 PM



Project: Pace Project No.:	MCA 1-A HEADER 60373379	R								
			A	N - 111						 
QC Batch:	728971		Analysis			PA 8260B				
QC Batch Method:	EPA 5035A/5030	)	Analysis	Description	n: 82	260 MSV 5	035A Volatile	e Organics	S	
			Laborato	ry:	Pa	ace Analyti	cal Services	- Kansas	City	
Associated Lab Sam	nples: 60373379	001, 60373379002								
METHOD BLANK:	2928147		Mat	trix: Solid						 
Associated Lab Sam	ples: 60373379	001, 60373379002								
			Blank	Rep	orting					
Param	neter	Units	Result	Li	imit	Analy	zed	Qualifiers		
Benzene		ug/kg	١	ND	5.0	06/28/21	13:20			
Ethylbenzene		ug/kg	1	١D	5.0	06/28/21	13:20			
Toluene		ug/kg	1	١D	5.0	06/28/21	13:20			
Xylene (Total)		ug/kg	1	١D	5.0	06/28/21	13:20			
1,2-Dichlorobenzene	e-d4 (S)	%	1	03	80-120	06/28/21	13:20			
4-Bromofluorobenze	ene (S)	%	1	07	85-115	06/28/21	13:20			
Toluene-d8 (S)		%	1	02	80-120	06/28/21	13:20			
LABORATORY CON	ITROL SAMPLE:	2928148								 
			Spike	LCS		LCS	% Rec	:		
Param	neter	Units	Conc.	Result	(	% Rec	Limits	Q	ualifiers	

Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Benzene	ug/kg		104	104	80-120	
Ethylbenzene	ug/kg	100	107	107	80-120	
Toluene	ug/kg	100	105	105	80-120	
Xylene (Total)	ug/kg	300	319	106	80-120	
1,2-Dichlorobenzene-d4 (S)	%			99	80-120	
4-Bromofluorobenzene (S)	%			97	85-115	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 2928	149 MS	MSD	2928150							
Parameter	Units	60373181001 Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	ND	99.2	99.4	76.4	85.0	77	85	35-120	11	35	
Ethylbenzene	ug/kg	ND	99.2	99.4	70.4	80.7	71	81	35-120	14	35	
Toluene	ug/kg	ND	99.2	99.4	72.4	83.0	73	83	35-120	14	35	
Xylene (Total)	ug/kg	ND	298	298	203	236	68	79	35-120	15	35	
1,2-Dichlorobenzene-d4 (S)	%						98	97	80-120		3	
4-Bromofluorobenzene (S)	%						103	99	85-115		20	
Toluene-d8 (S)	%						102	101	80-120		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/29/2021 04:51 PM



- <b>)</b>	/ICA 1-A HEADEF	२										
,	60373379											
QC Batch:	728968		Analy	sis Meth	od:	EPA 8015	3					
QC Batch Method:	EPA 3546		Analy	sis Desc	ription:	EPA 8015	3					
			Labo	ratory:		Pace Anal	ytical Serv	/ices - Kansa	s City			
Associated Lab Samp	les: 60373379	0001, 6037337900	2									
METHOD BLANK: 2	928132			Matrix: S	Solid							
Associated Lab Samp	les: 60373379	0001, 6037337900	2									
			Blan	ık	Reporting							
Parame	ter	Units	Resu	ult	Limit	Ana	alyzed	Qualifier	S			
TPH-DRO (C10-C28)		mg/kg		ND	9	.6 06/29/	21 10:59					
TPH-ORO (C28-C35)		mg/kg		ND	9	.6 06/29/	21 10:59					
n-Tetracosane (S)		%		94	31-15	52 06/29/	21 10:59					
p-Terphenyl (S)		%		88	46-13	30 06/29/	21 10:59					
LABORATORY CONT		2928133										
			Spike	L	.CS	LCS	%	Rec				
Parame	ter	Units	Conc.		esult	% Rec			Qualifiers			
TPH-DRO (C10-C28)		mg/kg	79.	9	68.8		86	74-124		_		
n-Tetracosane (S)		%				1	02	31-152				
p-Terphenyl (S)		%					96	46-130				
MATRIX SPIKE & MA		PLICATE: 2928	134		292813	5						
		2.07.112. 2020	MS	MSD	2020100	~						
		60373379001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units		Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
TPH-DRO (C10-C28)	mg/kg	g	89.9	89.6	5 146	131	13	35 118	30-130	11	35	M1
<b>T</b> (0)												

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/29/2021 04:51 PM

n-Tetracosane (S)

p-Terphenyl (S)

%

%

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31-152

46-130

116

101

112

101



Project: MCA 1-A HE	ADER					
Pace Project No.: 60373379						
QC Batch: 728912		Analysis Meth	hod: AS	STM D2974		
QC Batch Method: ASTM D297	74	Analysis Des	cription: Dr	y Weight/Percent	Moisture	
		Laboratory:	Pa	ace Analytical Serv	rices - Kansas (	City
Associated Lab Samples: 6037	3379001, 60373379002					
METHOD BLANK: 2927815		Matrix:	Solid			
Associated Lab Samples: 6037	3379001, 60373379002					
		Blank	Reporting			
Parameter	Units	Result	Limit	Analyzed	Qualifiers	_
Percent Moisture	%	ND	0.50	06/28/21 09:13		
SAMPLE DUPLICATE: 2927816	;					
		60373379001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Percent Moisture	%	9.4	9.4	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

### **REPORT OF LABORATORY ANALYSIS**

Date: 06/29/2021 04:51 PM



Project:	-	-A HEADER											
Pace Project No.:	603733												
QC Batch:	72894	-			/sis Metho		EPA 9056						
QC Batch Method:	EPA 9	9056		-	/sis Descri	ption: 9	056 IC Anio	ons					
				Labo	ratory:	F	Pace Analyt	cal Servic	es - Kansas	s City			
Associated Lab San	nples:	603733790	01, 6037337900	2									
METHOD BLANK:	292800	)6			Matrix: S	olid							
Associated Lab San	nples:	603733790	01, 6037337900	2									
				Blai	nk	Reporting							
Paran	neter		Units	Res	ult	Limit	Analy	zed	Qualifiers	5			
Chloride			mg/kg		ND	100	0 06/28/21	15:53					
LABORATORY COM	NTROL S	SAMPLE:	2928007										
				Spike	LC	S	LCS	% R	ec				Qual
Paran	neter		Units	Conc.	Re	sult	% Rec	Limi	ts C	Qualifiers			
Chloride			mg/kg	50	00	481	96	<u> </u>	30-120		_		
MATRIX SPIKE & M	IATRIX S		-ICATE: 2928	008		2928009							
				MS	MSD								
			60373379001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	-	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride		mg/kg	ND	552	552	573	577	89	90	80-120	1	15	
SAMPLE DUPLICA	TF: 29	28010											
				603733	79001	Dup			Max				
Paran	neter		Units	Res	ult	Result	RPD	)	RPD	Qualif	iers		
Chloride			mg/kg		ND	124			15				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 06/29/2021 04:51 PM

Released to Imaging: 8/30/2021 11:23:11 AM



#### QUALIFIERS

Project: MCA 1-A HEADER

Pace Project No.: 60373379

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

**DUP - Sample Duplicate** 

**RPD** - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

#### ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

#### **REPORT OF LABORATORY ANALYSIS**



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MCA 1-A HEADER Pace Project No.: 60373379

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch		
60373379001	FS-1	EPA 3546	728968	EPA 8015B	729236		
60373379002	FS-9	EPA 3546	728968	EPA 8015B	729236		
60373379001	FS-1	EPA 5035A/5030B	728677	EPA 8015B	729133		
60373379002	FS-9	EPA 5035A/5030B	728677	EPA 8015B	729133		
60373379001	FS-1	EPA 5035A/5030	728971	EPA 8260B	728987		
60373379002	FS-9	EPA 5035A/5030	728971	EPA 8260B	728987		
60373379001	FS-1	ASTM D2974	728912				
60373379002	FS-9	ASTM D2974	728912				
60373379001	FS-1	EPA 9056	728940	EPA 9056	729215		
60373379002	FS-9	EPA 9056	728940	EPA 9056	729215		

### **REPORT OF LABORATORY ANALYSIS**

		J*>
Pace Analytical Sample Condition	Upon Receipt	WO#:60373379
Client Name: Tetra Tech		
Courier: FedEx 🖉 UPS 🗆 VIA 🖾 Clay 🖾	PEX 🗆 ECI 🗆	Pace 🗆 Xroads 🗆 Client 🗆 Other 🗇
Tracking #: 500206488772 Pa	ice Shipping Label Use	d?Yes 🗆 No 🛩
Custody Seal on Cooler/Box Present: Yes 🛩 🛛 No 🗆	Seals intact: Yes	₽ No □
Packing Material: Bubble Wrap  Bubble Bags		None 🗆 Other 🗆
Thermometer Used: <u>T-298</u> Type of	of Ice: Wet Blue No	Date and initials of person
Cooler Temperature (°C): As-read <u>•3</u> Corr. Fac	ctor 0-0 Correc	ted 0-3 examining contents:
Temperature should be above freezing to 6°C		
Chain of Custody present:	Yes No N/A	
Chain of Custody relinquished:	Yes No N/A	
Samples arrived within holding time:	ØYes □No □N/A	
Short Hold Time analyses (<72hr):	🗆 Yes 🗖 No 🗔 N/A	
Rush Turn Around Time requested:	Yes No N/A	1-Day
Sufficient volume:	Yes No N/A	3
Correct containers used:	MYes DNn DN/A	
Pace containers used:	es 🛛 No 🗍 N/A	
Containers intact:	Yes No N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	□Yes □No □₩7/A	
Filtered volume received for dissolved tests?	□Yes □No <b>□M</b> /A	
Sample labels match COC: Date / time / ID / analyses		
Samples contain multiple phases? Matrix: SL	□Yes □N/A	
Containers requiring pH preservation in compliance? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#	□Yes □No ₽N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks: .ead acetate strip turns dark? (Record only)	□Yes □No	· · · · ·
Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No	
rip Blank present:	Yes No N/A	
leadspace in VOA vials ( >6mm):	□Yes □No 🕬 A	
Samples from USDA Regulated Area: State: NM	□Yes <b>□</b> N/A	
Additional labels attached to 5035A / TX1005 vials in the field Client Notification/ Resolution: Copy COC		Field Data Required? Y / N
257		
Person Contacted: Date/	Time:	

Project Manager Review:

Date:

F-KS-C-003-Rev\_11, February 28, 2018

<b>Custody Record</b>
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Recei	Received by O	v <b>OCD</b>	. 8/2	4/202 (;oN	1 2:10	5:51 P	M		eoue	aleð í	PH 8015R												72 hr.	Pa	ige 10	7 of
1				Method N	Chloride Sulfate TDS Ceneral Water Chemistry (see attached list)					þ	×									<b>18</b> hr.	8	Special Report Limits or TRRP Report	#			
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			Site Manager:	Contact Info:	Project #:					YEAR: 2021		DATE	6/24/2021	6/24/2021									Received	Received	Received b	CON CON CON
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July 09, 2021

Sam Abbott Tetra Tech, Inc 8911 N Capital of Texas Hwy #2310 Austin, TX 78759

RE: Project: MCA 1-A HEADER Pace Project No.: 60374236

Dear Sam Abbott:

Enclosed are the analytical results for sample(s) received by the laboratory on July 08, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network: • Pace Analytical Services - Kansas City

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

This Wood

Nolie Wood nolie.wood@pacelabs.com 1(913)563-1401 Project Manager

Enclosures

cc: John Thurston, Tetra Tech-Houston TX



# **REPORT OF LABORATORY ANALYSIS**
Received by OCD: 8/24/2021 2:16:51 PM Pace Analytical<sup>®</sup> www.pacelabs.com

#### CERTIFICATIONS

Project: MCA 1-A HEADER

Pace Project No.: 60374236

#### Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219 Missouri Inorganic Drinking Water Certification #: 10090 Arkansas Drinking Water Arkansas Certification #: 20-020-0 Arkansas Drinking Water Illinois Certification #: 200030 Iowa Certification #: 118 Kansas/NELAP Certification #: E-10116 Louisiana Certification #: 03055 Nevada Certification #: KS000212020-2 Oklahoma Certification #: 9205/9935 Florida: Cert E871149 SEKS WET Texas Certification #: T104704407-19-12 Utah Certification #: KS000212019-9 Illinois Certification #: 004592 Kansas Field Laboratory Accreditation: # E-92587 Missouri SEKS Micro Certification: 10070

# **REPORT OF LABORATORY ANALYSIS**



# SAMPLE SUMMARY

Project: MCA 1-A HEADER Pace Project No.: 60374236

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60374236001	FS-2(5')	Solid	07/07/21 10:15	07/08/21 08:40
60374236002	FS-6(5')	Solid	07/07/21 10:20	07/08/21 08:40
60374236003	FS-7(5')	Solid	07/07/21 12:30	07/08/21 08:40

# **REPORT OF LABORATORY ANALYSIS**



# SAMPLE ANALYTE COUNT

Project: MCA 1-A HEADER Pace Project No.: 60374236

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60374236001	FS-2(5')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	VNH	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
60374236002	FS-6(5')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	VNH	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K
60374236003	FS-7(5')	EPA 8015B	AHS	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		EPA 8260B	VNH	7	PASI-K
		ASTM D2974	DWC	1	PASI-K
		EPA 9056	LDB	1	PASI-K

PASI-K = Pace Analytical Services - Kansas City

## **REPORT OF LABORATORY ANALYSIS**



#### ANALYTICAL RESULTS

Project: MCA 1-A HEADER

Pace Project No.: 60374236

Sample: FS-2(5')	Lab ID: 603	74236001	Collected: 07/07/2	1 10:15	5 Received: 07	//08/21 08:40 N	Aatrix: Solid	
Results reported on a "dry weight"	' basis and are adj	iusted for pe	rcent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	Analytical Met	nod: EPA 801	5B Preparation Me	thod: E	PA 3546			
	Pace Analytica	I Services - K	Cansas City					
TPH-DRO (C10-C28)	15.0	mg/kg	9.9	1	07/08/21 10:31	07/08/21 12:14		
TPH-ORO (C28-C35)	14.7	mg/kg	9.9	1	07/08/21 10:31	07/08/21 12:14		
Surrogates								
n-Tetracosane (S)	114	%	31-152	1		07/08/21 12:14		
p-Terphenyl (S)	105	%	46-130	1	07/08/21 10:31	07/08/21 12:14	92-94-4	
Gasoline Range Organics	Analytical Met	nod: EPA 801	5B Preparation Me	thod: E	PA 5035A/5030B			
	Pace Analytica	I Services - K	Cansas City					
TPH-GRO	ND	mg/kg	10.6	1	07/08/21 10:11	07/08/21 12:39		
Surrogates		00						
4-Bromofluorobenzene (S)	88	%	63-121	1	07/08/21 10:11	07/08/21 12:39	460-00-4	
8260 MSV UST 5030 Med Level	Analytical Met	nod: EPA 826	0B Preparation Me	thod: E	PA 5035/5030B			
	Pace Analytica	I Services - K	ansas City					
Benzene	ND	ug/kg	53.1	1	07/08/21 10:11	07/08/21 12:36	71-43-2	
Ethylbenzene	ND	ug/kg	53.1	1	07/08/21 10:11	07/08/21 12:36	100-41-4	
Toluene	ND	ug/kg	106	1	07/08/21 10:11	07/08/21 12:36	108-88-3	
Xylene (Total)	ND	ug/kg	266	1	07/08/21 10:11	07/08/21 12:36	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	100	%	80-120	1		07/08/21 12:36		
Toluene-d8 (S)	101	%	80-120	1		07/08/21 12:36		
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	07/08/21 10:11	07/08/21 12:36	2199-69-1	
Percent Moisture	Analytical Met	nod: ASTM D	2974					
	Pace Analytica	I Services - K	ansas City					
Percent Moisture	3.7	%	0.50	1		07/08/21 10:17		
9056 IC Anions	Analytical Met	nod: EPA 905	6 Preparation Meth	nod: EP	PA 9056			
	Pace Analytica	I Services - K	ansas City					
Chloride	ND	mg/kg	103	10	07/08/21 17:00	07/08/21 18:06	16887-00-6	
Complex EQ (///)	Lab ID: 002		Calle at a di 07/07/0					

 Sample:
 FS-6(5')
 Lab ID:
 60374236002
 Collected:
 07/07/21
 10:20
 Received:
 07/08/21
 08:40
 Matrix:
 Solid

 Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.
 Matrix:
 Solid

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics	,		5B Preparation Me	ethod: E	PA 3546			
	Pace Analytica	al Services - K	ansas City					
TPH-DRO (C10-C28)	ND	mg/kg	10.7	1	07/08/21 10:31	07/08/21 12:31		
TPH-ORO (C28-C35)	ND	mg/kg	10.7	1	07/08/21 10:31	07/08/21 12:31		
Surrogates								
n-Tetracosane (S)	94	%	31-152	1	07/08/21 10:31	07/08/21 12:31	646-31-1	
p-Terphenyl (S)	75	%	46-130	1	07/08/21 10:31	07/08/21 12:31	92-94-4	

# **REPORT OF LABORATORY ANALYSIS**

Date: 07/09/2021 08:32 AM



## **ANALYTICAL RESULTS**

Project: MCA 1-A HEADER

Pace Project No.: 60374236

Sample: FS-6(5')	Lab ID: 603		Collected: 07/07/2				1atrix: Solid	
Results reported on a "dry weight" Parameters	basis and are adj Results	<b>usted for per</b> Units	cent moisture, sa Report Limit	mple s DF	<i>ize and any dilu</i> Prepared	t <b>ions.</b> Analyzed	CAS No.	Qua
Gasoline Range Organics	- Analytical Met	nod: EPA 8015	B Preparation Me	thod: E	– PA 5035A/5030B	_		
	Pace Analytica							
TPH-GRO	ND	mg/kg	12.1	1	07/08/21 10:11	07/08/21 12:54		
Surrogates	ND	mg/kg	12.1	i	07/00/21 10.11	01/00/21 12:04		
4-Bromofluorobenzene (S)	89	%	63-121	1	07/08/21 10:11	07/08/21 12:54	460-00-4	
8260 MSV UST 5030 Med Level	Analytical Met	nod: EPA 8260	B Preparation Me	thod <sup>.</sup> F	PA 5035/5030B			
	Pace Analytica		•					
Ponzono				1	07/09/21 10:11	07/09/21 12:24	71 42 2	
Benzene	ND	ug/kg	60.5	1		07/08/21 13:24		
Ethylbenzene	ND	ug/kg	60.5	1		07/08/21 13:24		
Toluene	ND	ug/kg	121	1		07/08/21 13:24		
Xylene (Total)	ND	ug/kg	303	1	07/08/21 10:11	07/08/21 13:24	1330-20-7	
Surrogates 4-Bromofluorobenzene (S)	00	%	80-120	1	07/09/21 10:11	07/08/21 13:24	460.00.4	
Toluene-d8 (S)	99 101		80-120					
		%		1		07/08/21 13:24		
1,2-Dichlorobenzene-d4 (S)	101	%	80-120	1	07/08/21 10:11	07/08/21 13:24	2199-69-1	
Percent Moisture	Analytical Meth	nod: ASTM D2	974					
	Pace Analytica	I Services - Ka	ansas City					
Percent Moisture	11.4	%	0.50	1		07/08/21 10:17		
9056 IC Anions	Analytical Met	nod: EPA 9056	6 Preparation Meth	od: EF	A 9056			
	Pace Analytica	I Services - Ka	ansas City					
Chloride	ND	mg/kg	113	10	07/08/21 17:00	07/08/21 18:54	16887-00-6	
Sample: FS-7(5')	Lab ID: 603	74236003						
			Collected: 07/07/2	1 12:30	Received: 07	/08/21 08:40 N	latrix: Solid	
Results reported on a "dry weight"	basis and are adj						latrix: Solid	
Results reported on a "dry weight" Parameters	basis and are adj Results						fatrix: Solid CAS No.	Qua
Parameters	Results	<b>Units</b>	Report Limit	mple s DF	ize and any dilut	tions.		Qua
Parameters	Results	Units	Cent moisture, sa Report Limit B Preparation Me	mple s DF	ize and any dilut	tions.		Qua
Parameters 8015B Diesel Range Organics	Results Analytical Meth Pace Analytica	Units Units nod: EPA 8015 I Services - Ka	Report Limit Report Limit B Preparation Me ansas City	mple s DF thod: E	ize and any diluter Prepared PA 3546	tions. Analyzed		Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28)	Results Analytical Meth Pace Analytica ND	usted for per Units nod: EPA 8015 I Services - Ka mg/kg	Report Limit B Preparation Me ansas City 10.8	mples DF thod: E	<i>ize and any dilu</i> Prepared PA 3546 07/08/21 10:31	tions. Analyzed		Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35)	Results Analytical Meth Pace Analytica	Units Units nod: EPA 8015 I Services - Ka	Report Limit Report Limit B Preparation Me ansas City	mple s DF thod: E	<i>ize and any dilu</i> Prepared PA 3546 07/08/21 10:31	tions. Analyzed		Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates	Results Analytical Meth Pace Analytica ND ND	usted for per Units nod: EPA 8015 I Services - Ka mg/kg mg/kg	B Preparation Me ansas City 10.8 10.8	mple s DF thod: E 1 1	ize and any dilut Prepared PA 3546 07/08/21 10:31 07/08/21 10:31	tions. Analyzed 07/08/21 12:39 07/08/21 12:39	CAS No.	Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S)	Results Analytical Meth Pace Analytica ND ND 99	usted for per Units nod: EPA 8015 I Services - Ka mg/kg mg/kg %	Report Limit B Preparation Me ansas City 10.8 10.8 31-152	mple s DF thod: E 1 1 1	ize and any dilut Prepared PA 3546 07/08/21 10:31 07/08/21 10:31 07/08/21 10:31	tions. Analyzed 07/08/21 12:39 07/08/21 12:39 07/08/21 12:39	CAS No. 646-31-1	Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S)	Results Analytical Meth Pace Analytica ND ND 99 88	usted for per Units nod: EPA 8015 I Services - Ka mg/kg mg/kg %	Report Limit EB Preparation Me ansas City 10.8 10.8 31-152 46-130	mple s DF thod: E 1 1 1 1	ize and any dilut Prepared PA 3546 07/08/21 10:31 07/08/21 10:31 07/08/21 10:31 07/08/21 10:31	tions. Analyzed 07/08/21 12:39 07/08/21 12:39 07/08/21 12:39 07/08/21 12:39	CAS No. 646-31-1	Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S)	Results Analytical Meth Pace Analytica ND ND 99 88	usted for per Units nod: EPA 8015 I Services - Ka mg/kg mg/kg % % nod: EPA 8015	Report Limit Report Limit B Preparation Me ansas City 10.8 10.8 31-152 46-130 B Preparation Me	mple s DF thod: E 1 1 1 1	ize and any dilut Prepared PA 3546 07/08/21 10:31 07/08/21 10:31 07/08/21 10:31 07/08/21 10:31	tions. Analyzed 07/08/21 12:39 07/08/21 12:39 07/08/21 12:39 07/08/21 12:39	CAS No. 646-31-1	Qua
Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) <i>Surrogates</i> n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics	Results Analytical Meth Pace Analytica ND 99 88 Analytical Meth Pace Analytica	usted for per Units I Services - Ka mg/kg mg/kg % % hod: EPA 8015	B Preparation Me ansas City 31-152 46-130 58 Preparation Me 10.8 31-152 46-130 58 Preparation Me ansas City	mple s DF thod: E 1 1 1 thod: E	ize and any dilut Prepared PA 3546 07/08/21 10:31 07/08/21 10:31 07/08/21 10:31 07/08/21 10:31 PA 5035A/5030B	tions. Analyzed 07/08/21 12:39 07/08/21 12:39 07/08/21 12:39 07/08/21 12:39	CAS No. 646-31-1	Qua
Results reported on a "dry weight" Parameters 8015B Diesel Range Organics TPH-DRO (C10-C28) TPH-ORO (C28-C35) Surrogates n-Tetracosane (S) p-Terphenyl (S) Gasoline Range Organics TPH-GRO Surrogates	Results Analytical Meth Pace Analytica ND ND 99 88 Analytical Meth	usted for per Units nod: EPA 8015 I Services - Ka mg/kg mg/kg % %	Report Limit Report Limit B Preparation Me ansas City 10.8 10.8 31-152 46-130 B Preparation Me	mple s DF thod: E 1 1 1 1	ize and any dilut Prepared PA 3546 07/08/21 10:31 07/08/21 10:31 07/08/21 10:31 07/08/21 10:31 PA 5035A/5030B	tions. Analyzed 07/08/21 12:39 07/08/21 12:39 07/08/21 12:39 07/08/21 12:39	CAS No. 646-31-1	Qua

# **REPORT OF LABORATORY ANALYSIS**



# ANALYTICAL RESULTS

Project: MCA 1-A HEADER

Pace Project No.: 60374236

Sample: FS-7(5')	Lab ID: 603	74236003	Collected: 07/07/2	1 12:30	Received: 07	7/08/21 08:40 N	Aatrix: Solid	
Results reported on a "dry weight"	basis and are adj	usted for pe	rcent moisture, sa	mple s	ize and any dilu	tions.		
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV UST 5030 Med Level	Analytical Meth	od: EPA 826	0B Preparation Me	thod: E	PA 5035/5030B			
	Pace Analytica	I Services - k	Kansas City					
Benzene	ND	ug/kg	61.0	1	07/08/21 10:11	07/08/21 13:40	71-43-2	
Ethylbenzene	ND	ug/kg	61.0	1	07/08/21 10:11	07/08/21 13:40	100-41-4	
Toluene	ND	ug/kg	122	1	07/08/21 10:11	07/08/21 13:40	108-88-3	
Xylene (Total)	ND	ug/kg	305	1	07/08/21 10:11	07/08/21 13:40	1330-20-7	
Surrogates								
4-Bromofluorobenzene (S)	99	%	80-120	1	07/08/21 10:11	07/08/21 13:40	460-00-4	
Toluene-d8 (S)	100	%	80-120	1	07/08/21 10:11	07/08/21 13:40	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	98	%	80-120	1	07/08/21 10:11	07/08/21 13:40	2199-69-1	
Percent Moisture	Analytical Meth	od: ASTM D	2974					
	Pace Analytica	I Services - H	Kansas City					
Percent Moisture	10.7	%	0.50	1		07/08/21 10:18		
9056 IC Anions	Analytical Meth	od: EPA 905	6 Preparation Meth	od: EP	A 9056			
	Pace Analytica							
Chloride	ND	mg/kg	112	10	07/08/21 17:00	07/08/21 19:25	16887-00-6	

# **REPORT OF LABORATORY ANALYSIS**

Released to Imaging: 8/30/2021 11:23:11 AM



Project:	MCA 1-A HEADE	२										
Pace Project No.:	60374236											
QC Batch:	730872		Analy	sis Metho	od:	EPA 8015B						
QC Batch Method:	EPA 5035A/5030	)B	Analy	sis Descr	iption:	Gasoline Ra	ange Orgar	nics				
			Labo	ratory:		Pace Analyt	ical Service	es - Kansa	s City			
Associated Lab Sam	ples: 60374236	001, 6037423600	02, 6037423	6003								
METHOD BLANK:	2934282			Matrix: S	olid							
Associated Lab Sam	ples: 60374236	001, 6037423600	02, 6037423	6003								
			Blan	k	Reporting							
Param	eter	Units	Resu	ult	Limit	Analy	/zed	Qualifier	S			
TPH-GRO		mg/kg		ND	10.	0 07/08/2	1 12:23					
4-Bromofluorobenze	ne (S)	%		89	63-12	1 07/08/2	1 12:23					
LABORATORY CON	TROL SAMPLE:	2934283	Onite		20	1.00	0/ <b>D</b>					
Param	otor	Units	Spike Conc.		CS sult	LCS % Rec	% Re Limi		Qualifiers			
									Quaimers			
TPH-GRO		mg/kg	5	0	45.9	92		1-107				
4-Bromofluorobenze	ne (S)	%				92	2 6	3-121				
MATRIX SPIKE & M	ATRIX SPIKE DUF	PLICATE: 2934	284		2934285	5						
			MS	MSD								
		60374236003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	s Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
TPH-GRO	mg/k	g ND	61	61	53.1	53.0	86	86	29-143	0	26	
4-Bromofluorobenzei	ne (S) %						89	90	63-121			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 07/09/2021 08:32 AM

Released to Imaging: 8/30/2021 11:23:11 AM



Project: N	ICA 1-A HEADER						
Pace Project No.: 6	0374236						
QC Batch:	730862		Analysis Meth	nod: E	PA 8260B		
QC Batch Method:	EPA 5035/5030B		Analysis Des	cription: 8	260 MSV 5030 Med	l	
			Laboratory:	F	ace Analytical Servi	ces - Kansas City	
Associated Lab Sampl	es: 6037423600	01, 60374236002,	, 60374236003				
METHOD BLANK: 2	934224		Matrix:	Solid			
Associated Lab Sampl	es: 6037423600	01, 60374236002,	, 60374236003				
			Blank	Reporting			
Paramet	er	Units	Result	Limit	Analyzed	Qualifiers	
Benzene		ug/kg	ND	50.0	07/08/21 12:20		
Ethylbenzene		ug/kg	ND	50.0	07/08/21 12:20		
Toluene		ug/kg	ND	100	07/08/21 12:20		
Xylene (Total)		ug/kg	ND	250	07/08/21 12:20		
1,2-Dichlorobenzene-c	l4 (S)	%	100	80-120	07/08/21 12:20		
4-Bromofluorobenzene	e (S)	%	99	85-115	07/08/21 12:20		
Toluene-d8 (S)		%	100	80-120	07/08/21 12:20		

#### LABORATORY CONTROL SAMPLE: 2934225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg		1800	90	75-125	
Ethylbenzene	ug/kg	2000	1900	95	80-130	
Toluene	ug/kg	2000	1810	91	80-120	
Xylene (Total)	ug/kg	6000	5610	93	80-125	
1,2-Dichlorobenzene-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			102	85-115	
Toluene-d8 (S)	%			101	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 2934	226		2934227							
	6	0374236001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/kg	ND	2130	2130	2090	2190	99	103	45-130	4	35	
Ethylbenzene	ug/kg	ND	2130	2130	2160	2180	102	103	35-140	1	35	
Toluene	ug/kg	ND	2130	2130	2090	2120	98	100	40-135	2	35	
Xylene (Total)	ug/kg	ND	6380	6380	6410	6630	101	104	30-145	3	35	
1,2-Dichlorobenzene-d4 (S)	%						103	101	80-120		3	
4-Bromofluorobenzene (S)	%						101	101	85-115		20	
Toluene-d8 (S)	%						102	100	80-120		20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 07/09/2021 08:32 AM



Project: MCA 1-A HEADE	R						
Pace Project No.: 60374236							
QC Batch: 730864		Analysis N	lethod:	EP	A 8015B		
QC Batch Method: EPA 3546		Analysis E	Description:	EP	A 8015B		
		Laborator	y:	Pa	ce Analytical	Services - k	Kansas City
Associated Lab Samples: 6037423	6001, 6037423600	2, 60374236003	5				
METHOD BLANK: 2934231		Matr	ix: Solid				
Associated Lab Samples: 6037423	6001, 6037423600	2, 60374236003	3				
		Blank	Reporting	9			
Parameter	Units	Result	Limit		Analyze	d Qu	alifiers
TPH-DRO (C10-C28)	mg/kg	N	D	9.5	07/08/21 12	1:58	
TPH-ORO (C28-C35)	mg/kg	N	D	9.5	07/08/21 11	1:58	
n-Tetracosane (S)	%	10	)8 31- <sup>-</sup>	152	07/08/21 11	1:58	
p-Terphenyl (S)	%	ę	9 46-1	130	07/08/21 11	1:58	
LABORATORY CONTROL SAMPLE:	2934232						
		Spike	LCS	I	LCS	% Rec	
Parameter	Units	Conc.	Result	%	6 Rec	Limits	Qualifie
TPH-DRO (C10-C28)	mg/kg	80.4	72.8		90	74-12	24
n-Tetracosane (S)	%				114	31-15	52
p-Terphenyl (S)	%				107	46-13	0

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

Date: 07/09/2021 08:32 AM



Project:	MCA 1-A HEADER						
Pace Project No.:	60374236						
QC Batch:	730861		Analysis Meth	nod: AS	STM D2974		
QC Batch Method:	ASTM D2974		Analysis Desc	cription: Di	ry Weight/Percent I	Moisture	
			Laboratory:	Pa	ace Analytical Serv	ices - Kansas (	City
Associated Lab Sa	amples: 6037423600	1, 6037423600	02, 60374236003				
METHOD BLANK:	2934222		Matrix:	Solid			
Associated Lab Sa	amples: 6037423600	1, 6037423600	02, 60374236003				
			Blank	Reporting			
Para	ameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers	
Para Percent Moisture	ameter	Units %				Qualifiers	_
	ameter		Result	Limit	· ·	Qualifiers	-
			Result ND	Limit 0.50	· ·		_
Percent Moisture	ATE: 2934223	%	Result	Limit 0.50	07/08/21 10:17	Max	
Percent Moisture			Result ND	Limit 0.50	· ·		Qualifiers

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

## **REPORT OF LABORATORY ANALYSIS**

Date: 07/09/2021 08:32 AM

Released to Imaging: 8/30/2021 11:23:11 AM



Project:	MCA 1-A HEADE	R										
Pace Project No .:	60374236											
QC Batch:	731043		Analy	/sis Metho	d: E	EPA 9056						
QC Batch Method:	EPA 9056		Analy	/sis Descri	ption: 9	9056 IC Ani	ons					
			Labo	ratory:	F	Pace Analyt	ical Servic	es - Kansas	s City			
Associated Lab Sar	nples: 60374236	6001, 6037423600	02, 6037423	6003								
METHOD BLANK:	2934937			Matrix: S	olid							
Associated Lab Sar	nples: 60374236	6001, 6037423600	2, 6037423	86003								
			Blar	nk	Reporting							
Paran	neter	Units	Res	ult	Limit	Analy	/zed	Qualifiers	5			
Chloride		mg/kg		ND	10	0 07/08/2	1 17:35					
LABORATORY CO	NTROL SAMPLE:	2934938										
			Spike	LC	S	LCS	% R	ес				
Paran	neter	Units	Conc.	Re	sult	% Rec	Limi	ts (	Qualifiers			
Chloride		mg/kg	50	00	501	100	5 8	30-120				
MATRIX SPIKE & M		PLICATE: 2934	020		2934940							
WAIRIN SFIRE & W	IATRIA SPIRE DU	PLICATE. 2934	MS	MSD	2934940							
		60374236001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Мах	
Parameter	· Unit	s Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/k	ig ND	518	518	524	527	89	90	80-120	1	15	
SAMPLE DUPLICA	TE: 2934941											
-			603742		Dup			Max				
Parar	neter	Units	Res		Result	RPD	)	RPD	Qualif	iers		
Chloride		mg/kg		ND	72.1	J		15	5			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

#### **REPORT OF LABORATORY ANALYSIS**

Date: 07/09/2021 08:32 AM

Released to Imaging: 8/30/2021 11:23:11 AM



#### QUALIFIERS

Project: MCA 1-A HEADER

Pace Project No.: 60374236

#### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

**RPD - Relative Percent Difference** 

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## **REPORT OF LABORATORY ANALYSIS**



# QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:	MCA 1-A HEADER
Pace Project No .:	60374236

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60374236001	FS-2(5')	EPA 3546	730864	EPA 8015B	730918
60374236002	FS-6(5')	EPA 3546	730864	EPA 8015B	730918
60374236003	FS-7(5')	EPA 3546	730864	EPA 8015B	730918
60374236001	FS-2(5')	EPA 5035A/5030B	730872	EPA 8015B	730899
60374236002	FS-6(5')	EPA 5035A/5030B	730872	EPA 8015B	730899
60374236003	FS-7(5')	EPA 5035A/5030B	730872	EPA 8015B	730899
60374236001	FS-2(5')	EPA 5035/5030B	730862	EPA 8260B	730919
60374236002	FS-6(5')	EPA 5035/5030B	730862	EPA 8260B	730919
60374236003	FS-7(5')	EPA 5035/5030B	730862	EPA 8260B	730919
60374236001	FS-2(5')	ASTM D2974	730861		
60374236002	FS-6(5')	ASTM D2974	730861		
60374236003	FS-7(5')	ASTM D2974	730861		
60374236001	FS-2(5')	EPA 9056	731043	EPA 9056	731102
60374236002	FS-6(5')	EPA 9056	731043	EPA 9056	731102
60374236003	FS-7(5')	EPA 9056	731043	EPA 9056	731102

# **REPORT OF LABORATORY ANALYSIS**

	Upon Receipt	WO#:60374236
Client Name: <u>Tetra tech</u> Courier: FedEx UPS VIA Clay Tracking #: <u>506206497218</u> Pi Custody Seal on Cooler/Box Present: Yes No Packing Material: Bubble Wrap Bubble Bag Thermometer Used: <u>T966</u> Type Cooler Temperature (°C): As-read <u>2.3</u> Corr. Fac Temperature should be above freezing to 6°C	Seals intact: Yes Foam D of Ice: Web Blue No	No D None D Other D
Chain of Custody present:	Yes 🗆 No 🗆 N/A	
Chain of Custody relinquished:	Yes 🗆 No 🗆 N/A	
Samples arrived within holding time:		
Short Hold Time analyses (<72hr):		
Rush Turn Around Time requested:		Same DAV
Sufficient volume:		
Correct containers used:		
Pace containers used:		
Containers intact:		
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?		
Filtered volume received for dissolved tests?		
Sample labels match COC: Date / time / ID / analyses		
Samples contain multiple phases? Matrix: 57		
Containers requiring pH preservation in compliance? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT# Cyanide water sample checks: Lead acetate strip turns dark? (Record only) Potassium iodide test strip turns blue/purple? (Preserve)	□Yes □No XN/A □Yes □No □Yes □No	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Trip Blank present:		
Headspace in VOA vials ( >6mm):		
614		
earlier work of the state of the state.		
Additional labels attached to 5035A / TX1005 vials in the field Client Notification/ Resolution: Copy COC		Field Data Required? Y / N
	/Time:	

	ed by	OCD:		_	2:16:	51 PA	M				17PH 8015R		F	-	-									Page 12	23 of 1	
oť				(; 						ed n	oiteO/noinA				L.,								72 hr.	<b>ب</b>		
				<b>v</b> —		(te	ll benoe	_		Sulfa Suffer C	Chloride Seneral Wa	⊢		-							$\neg$		18 hr.	Rush Charges Authorized		
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# APPENDIX D Photographic Documentation























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# APPENDIX E Waste Manifests

Received by OCD: 8/24/2021 2:10 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1217901 Page 137 of 179 O6UJ9A000HH0 6/17/2021 CONOCOPHILLIPS 999908 MCA 2-0 HEADER NON-DRILLING LEA (NM)				
Facility: CRI								
Product / Service		Qua	antity Units					
Contaminated Soil (RCRA Exemp	ot)	18.00 yards						
Generator Certification Statemen I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re amended. The following documentation MSDS Information _ RCRA H	esource Conser ve described wa enerated from o te which is non- gulations, 40 CF on is attached to	vation and Recovery Act (RC aste is: il and gas exploration and pro- hazardous that does not excer FR 261.21-261.24 or listed haz demonstrate the above-descr	oduction operations and ed the minimum standar ardous waste as defined ibed waste is non-hazar	l are not mixed with non-exempt waster rds for waste hazardous by d in 40 CFR, part 261, subpart D, as rdous. (Check the appropriate items):				
Driver/ Agent Signature		R360 Represent	ative Signature					
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Customer Approval								
	TH	S IS NOT AN IN	VOICE!					
Approved By:		Date:						

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1217904 Page 138 of 179 O6UJ9A000HH0 6/17/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quanti	ity Units	
Contaminated Soil (RCRA Exemp	t)	18	8.00 yards	
X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentatio MSDS Information _ RCRA H	e which is non- gulations, 40 CF n is attached to	hazardous that does not exceed the R 261.21-261.24 or listed hazardor demonstrate the above-described	he minimum standar ous waste as defined d waste is non-hazar	rds for waste hazardous by I in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representativ	ve Signature	
Customer Approval				
	TH	S IS NOT AN INV	OICE!	X
Approved By:		Date:		

Received by OCD: 8/24/2021 2:16 REGENERATE ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1217913 O6UJ9A000HH0 6/17/2021 CONOCOPHILL 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)	
Facility: CRI					
Product / Service	A CONTRACTOR	Quantity L	Jnits		
Contaminated Soil (RCRA Exemp	t)	18.00	yards		
X RCRA Exempt: Oil Field wastes ge _ RCRA Non-Exempt: Oil field wastes characteristics established in RCRA reg amended. The following documentatio _ MSDS Information _ RCRA H	e which is non- gulations, 40 CF n is attached to	hazardous that does not exceed the m FR 261.21-261.24 or listed hazardous v demonstrate the above-described was e Analysis Process Knowledge	inimum standar waste as defined ste is non-hazar Other (Prov	rds for waste hazard l in 40 CFR, part 26 dous. (Check the ap	lous by 61, subpart D, as ppropriate items):
Driver/ Agent Signature		R360 Representative S	ignature		
				/	
Customer Approval					
	тн	S IS NOT AN INVOI	CE!		
Approved By:		Date:			

Received by OCD: 8/24/2021 2: RECEIVED AND AND AND AND AND AND AND AND AND AN	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1218088 Page 140 of 179 O6UJ9A000HH0 6/18/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service	. Frederic Stranger	Qua	ntity Units	
Contaminated Soil (RCRA Exer	npt)		18.00 yards	
RCRA Non-Exempt: Oil field w characteristics established in RCRA	bove described was s generated from o vaste which is non- regulations, 40 CF ation is attached to	aste is: il and gas exploration and prod hazardous that does not exceed FR 261.21-261.24 or listed haza demonstrate the above-descril e Analysis Process Knowl	duction operations and d the minimum standar rdous waste as defined bed waste is non-hazar ledge Other (Prov	are not mixed with non-exempt wast rds for waste hazardous by 1 in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representa	tive Signature	
Customer Approval	THI	S IS NOT AN IN	VOICE!	
Approved By:		Date	2:	

Received by OCD: 8/24/2021 2:16.	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908
Facility: CRI				
Product / Service		Quantity	/ Units	
Contaminated Soil (RCRA Exemp	t)	18.	00 yards	
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentatio MSDS Information RCRA H Driver/ Agent Signature	ve described wa enerated from o e which is non- gulations, 40 CF n is attached to	iste is: il and gas exploration and producti hazardous that does not exceed the R 261.21-261.24 or listed hazardou demonstrate the above-described v	on operations and minimum standar waste as defined waste is non-hazar e Other (Pro	are not mixed with non-exempt waster rds for waste hazardous by 1 in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Customer Approval				
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Received by OCD: 8/24/2021 2:16: RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	999908
Facility: CRI				
Product / Service		Qua	ntity Units	
Contaminated Soil (RCRA Exemp	t)		18.00 yards	
Generator Certification Statement				
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA Ha	re described wa nerated from o e which is non- ulations, 40 CF n is attached to	iste is: il and gas exploration and proc hazardous that does not exceed R 261.21-261.24 or listed haza demonstrate the above-describ	duction operations and d the minimum standar rdous waste as defined bed waste is non-hazard	are not mixed with non-exempt wast ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representa	tive Signature	
Customer Approval			L	<u>}</u>
	THI	S IS NOT AN INV	/OICE!	
Approved By:		Date		

Received by OCD: 8/24/2021 2:10	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	O6UJ9A000HH0 6/21/2021 CONOCOPHILLI	<i>Page 143 of 179</i> PS		
Facility: CRI							
Product / Service		Quantity	/ Units				
Contaminated Soil (RCRA Exemp	t)	18.	00 yards				
Generator Certification Statement of Waste Status         hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X       RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wasta caracteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         MSDS Information       RCRA Hazardous Waste Analysis       Process Knowledge       Other (Provide description above)         Driver/ Agent Signature       R360 Representative Signature       Rafe Representative Signature							
Customer Approval			~				
	THI	S IS NOT AN INVO	ICE!				
Approved By:		Date:					

Received by OCD: 8/24/2021 2:16 <b>PR360</b> ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	999908
Facility: CRI				
Product / Service	Service Quantity Units			
Contaminated Soil (RCRA Exempt)		18.00 yards		
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha Driver/ Agent Signature	source Conserv e described wa nerated from o e which is non- gulations, 40 CF n is attached to	vation and Recovery Act (RCF ste is: il and gas exploration and pro- hazardous that does not excee R 261.21-261.24 or listed haza demonstrate the above-descri	duction operations and d the minimum standar urdous waste as defined bed waste is non-hazar ledgeOther (Rro	are not mixed with non-exempt wast ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Customer Approval				
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Approved By:		Date	9:	
Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1218804 Page 145 of 179 O6UJ9A000HH0 6/22/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)
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Facility: CRI				
Product / Service		Quar	ntity Units	
Contaminated Soil (RCRA Exemp	t)		16.00 yards	
Generator Certification Statemen	t of Waste St	atus		
I hereby certify that according to the Re 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentatio MSDS Information RCRA Here	ve described was enerated from o e which is non- gulations, 40 CF n is attached to	ste is: il and gas exploration and prod hazardous that does not exceed R 261.21-261.24 or listed hazar demonstrate the above-describ	uction operations and the minimum standar dous waste as defined ed waste is non-hazar	are not mixed with non-exempt wasters of for waste hazardous by in 40 CFR, part 261, subpart D, as dous/(Check the appropriate items):
Driver/ Agent Signature		R360 Representat	tive Signature	
Customer Approval				
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Date:

Approved By:

Received by OCD: 8/24/2021 2:16	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Field: Field #: Rig: County	999908			
Facility: CRI							
Product / Service		Quant	ity Units				
Contaminated Soil (RCRA Exemp	t)	1	8.00 yards				
I hereby certify that according to the Re 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wastes characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA H	ve described wa enerated from o e which is non- gulations, 40 CF n is attached to	ste is: il and gas exploration and produ hazardous that does not exceed t R 261.21-261.24 or listed hazard demonstrate the above-describe Analysis Process Knowled	ction operations and the minimum standar ous waste as defined d waste is non-hazar lge Other (Pro-	are not mixed with non-exempt wast ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):			
Driver/ Agent Signature		R360 Representati	ve Signature				
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Customer Approval			$\smile$				
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Approved By:		Date:					

Received by OCD: 8/24/2021 2:1 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	O6UJ9A000HH0 6/22/2021 CONOCOPHILLI 999908	
Facility: CRI					
Product / Service		Quan	tity Units		
Contaminated Soil (RCRA Exem	pt)		18.00 yards		
1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field was characteristics established in RCRA re amended. The following documentati MSDS Information RCRA H	senerated from o ste which is non- egulations, 40 CF on is attached to	il and gas exploration and prod hazardous that does not exceed R 261.21-261.24 or listed hazar demonstrate the above-describ	dous waste as defined dous waste is non-hazar	d in 40 CFR, part 26 dous. (Check the ap	l, subpart D, as propriate items):
Driver/ Agent Signature		R360 Representat	tive Signature		
Customer Approval					
	TH	IS IS NOT AN INV	OICE!		
Approved By:		Date	:		

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1218832 Page 148 of 179 O6UJ9A000HH0 6/22/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)			
Facility: CRI							
Product / Service		Qua	ntity Units				
Contaminated Soil (RCRA Exemp	t)	16.00 yards					
Generator Certification Statement	of Waste St	atus					
I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information							
Driver/ Agent Signature		R360 Representa	itive Signature				
Customer Approval							

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Approved By:

Date: \_\_\_\_\_

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908				
Facility: CRI								
Product / Service	国际市均公司任F	Quantity I	Jnits					
Contaminated Soil (RCRA Exemp	t)	18.00	18.00 yards					
I hereby certify that according to the Re 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg	Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste         _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by         characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as         amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         MSDS Information       _ RCRA Hazardous Waste Analysis       _ Process Knowledge       _ Other (Provide description above)							
Driver/ Agent Signature		R360 Representative S	ignature					
Clar								
Customer Approval								
	TH	IS IS NOT AN INVOI	CE!					
Approved By:		Date:						

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1218842 Page 150 of 179 O6UJ9A000HH0 6/22/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)		
Facility: CRI						
Product / Service		Quant	ity Units			
Contaminated Soil (RCRA Exemp	t)	1	8.00 yards			
Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste a RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         MSDS Information       RCRA Hazardous Waste Analysis       Process Knowledge       Other (Provide description above)         Driver/ Agent Signature       R360 Representative Signature						
Customer Approval						
	THI	S IS NOT AN INV	OICE!			
Approved By		Date:				

S. A

Received by OCD: 8/24/2021 2:1 RECEIVER SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908			
Facility: CRI							
Product / Service		Quantity	Units				
Contaminated Soil (RCRA Exem	npt)	18.0	00 yards				
1988 regulatory determination, the ab X RCRA Exempt: Oil Field wastes _ RCRA Non-Exempt: Oil field was characteristics established in RCRA r	Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste access results of the Resource Conservation and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         MSDS Information       RCRA Hazardous Waste Analysis       Process Knowledge       Other (Provide description above)         Driver/ Agent Signature       R360 Representative Signature						
Customer Approval			/				
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Approved By:		Date:		• 			

Received by OCD: 8/24/2021 2:16.	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1218878 O6UJ9A000HH0 6/22/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)		
Facility: CRI						
Product / Service		Qua	ntity Units			
Contaminated Soil (RCRA Exemp	t)	16.00 yards				
Generator Certification Statement	of Waste Sta	atus				
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	ve described wa nerated from oi e which is non-l ulations, 40 CF n is attached to	ste is: I and gas exploration and proc hazardous that does not exceed R 261.21-261.24 or listed haza demonstrate the above-describ	luction operations and d the minimum standard rdous waste as defined bed waste is non-hazard	are not mixed with non-exempt wasted ds for waste hazardous by in 40 CFR, part 261, subpart D, as lous. (Check the appropriate items):		
Driver/ Agent Signature		R360 Representa	tive Signature			
Customer Approval				<u> </u>		

#### THIS IS NOT AN INVOICE!

Approved By: \_\_\_\_\_

Received by OCD: 8/24/2021 2:16 RB360 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908	IPS	
Facility: CRI						
Product / Service		Quar	ntity Units	自己的基本有限的遗言		
Contaminated Soil (RCRA Exemp	ot)		18.00 yards			
Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste         _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by         characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as         amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         _ MSDS Information       _ RCRA Hazardous Waste Analysis       _ Process Knowledge       _ Other (Provide description above)         Driver/ Agent Signature       R360 Representative Signature						
Customer Approval			V			
	TH	S IS NOT AN INV	OICE!			
Approved By:		Date	:			

Received by OCD: 8/24/2021 2:16 RECEIVER ON MENTAL SOLUTIONS Permian Basin	Customer #:	CONOCOPHILLIPS CRI2190 JOHN THURSTON 18 6/22/2021 MCNABB PARTNERS JOE M76	Ticket a Bid #: Date: Genera Well Se Well Na Well #: Field: Field #: Rig: County	O6UJ9A000 6/22/2021 ator: CONOCOP ator #: er. #: 999908 ame: MCA 1 A HEADER	0HH0 PHILLIPS		
Facility: CRI							
Product / Service		G	uantity Units				
Contaminated Soil (RCRA Exemp	t)	18	20.00 yards				
<b>Generator Certification Statement</b>	of Waste Sta	ntus					
<ul> <li>I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July</li> <li>1988 regulatory determination, the above described waste is:</li> <li>X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste</li> <li>RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by</li> <li>characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as</li> <li>amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous (Check the appropriate items):</li> <li>MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)</li> </ul>							
Driver/ Agent Signature		R360 Represe	ntative Signature				
Alle							
Customer Approval							
	THI	S IS NOT AN II	VVOICE!				
Approved By:		D	ate:				

Received by Received by ENVIRONMENT SOLUTIO Permian Basin	BE	50	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	JOHN THURS	SON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-121890 06UJ9A000 6/22/2021 CONOCOP 999908 MCA 1 A HEADER NON-DRILL LEA (NM)	HILLIPS	ge 155 of 179
Facility: CRI										
Product / Serv	ice				Qi	uantity U	nits		· Basili	
Contaminated	Soil (R	CRA Exemp	t)			16.00 y	vards			
	Cell	pН	Cl Con	d. %Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00 (	0.00 0.0	0 0			2.00			

#### **Generator Certification Statement of Waste Status**

1 hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_\_\_\_\_\_MSDS Information \_\_\_\_\_RCRA Hazardous Waste Analysis \_\_\_\_\_Process Knowledge \_\_\_\_\_Other (Provide description above)

**Driver/ Agent Signature** 

**R360 Representative Signature** 

Customer Approval

## THIS IS NOT AN INVOICE!

Approved By:

Received by OCD: 8/24/2021 2:16: RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	999908		
Facility: CRI						
Product / Service		Quantit	ty Units			
Contaminated Soil (RCRA Exemp	t)	18.00 yards				
Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt wasta         _ RCRA Non-Exempt: Oil field wastes which is non-hazardous that does not exceed the minimum standards for waste hazardous by         characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as         amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         MSDS Information       _ RCRA Hazardous Waste Analysis       _ Process Knowledge       _ Other (Provide description above)         Driver/ Agent Signature       R360 Representative Signature       _ R360 Representative Signature						
Customer Approval						
	TH	S IS NOT AN INVO	DICE!			
Approved By:		Date:				

Received by OCD: 8/24/2021 2:16: RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #. Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	999908		
Facility: CRI						
Product / Service		Quantity	Units			
Contaminated Soil (RCRA Exemp	t)	18.00	) yards			
Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)         Driver/ Agent Signature       R360 Representative Signature         Customer Approval       Customer Approval						
	тні	S IS NOT AN INVOIO	CE!			
Approved By:		Date:				

Received by C RCC ENVIRONMENT SOLUTIO Permian Basin	BE		Custo Order AFE # PO #: Manif	mer #: C ed by: JC t: est #: 22 . Date: 6/ r: M f: JE # M #	ONOCOPHIL RI2190 DHN THIRST 2 22/2021 CNABB PAR ESSE 82	EN		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-12189 06UJ9A0 6/22/2021 CONOCC 999908 MCA 1 A HEADER NON-DRI LEA (NM)	00HH0 PHILLIPS	e 158 of 179
Facility: CRI											
Product / Serv	vice	La Meterra				Q	uantity U	nits			「「「日本天日」」
Contaminated	I Soil (R	CRA Exer	npt)				18.00	yards			
	Cell	pН	CI	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0			0.00			
Generator Ce I hereby certify 1988 regulatory	that acco	rding to the	Resource	Conservati	on and Recove	ery Act (R	CRA) and	the US Enviro	onmental Pro	otection Ag	ency's July

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waster \_ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as

amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): \_ MSDS Information \_ RCRA Hazardous Waste Analysis \_ Process Knowledge Other (Provide description above)

Driver/ Agent Signature	R360 Representative Signature						
Customer Approval							
THIS IS NOT AN INVOICE!							

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Approved By:

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	O6UJ9A000HH0 6/23/2021 CONOCOPHILLI	<i>Page 159 of 179</i> PS
Facility: CRI					
Product / Service		Quanti	ty Units		
Contaminated Soil (RCRA Exemp	ot)	18	.00 yards		
Generator Certification Statemen I hereby certify that according to the Re 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Here Driver/ Agent Signature Customer Approval	esource Conserv ve described wa enerated from oi e which is non- gulations, 40 CF n is attached to	vation and Recovery Act (RCRA) ste is: Il and gas exploration and produc hazardous that does not exceed th R 261.21-261.24 or listed hazardo demonstrate the above-described	tion operations and the minimum standar ous waste as defined waste is non-hazar ge Other (Pro-	are not mixed with r ds for waste hazardo in 40 CFR, part 261 dous. (Check the app	non-exempt wasto bus by , subpart D, as propriate items):
	THI	S IS NOT AN INVO	DICE!		
Approved By:		Date:			

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	Page 160 of 179 O6UJ9A000HH0 6/23/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)		
Facility: CRI						
Product / Service		Qua	ntity Units			
Contaminated Soil (RCRA Exemp	t)	18.00 yards				
Generator Certification Statement						
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	e described wa nerated from oi e which is non-l ulations, 40 CF n is attached to	ste is: l and gas exploration and proc nazardous that does not exceed R 261.21-261.24 or listed haza demonstrate the above-describ	duction operations and d the minimum standar rdous waste as defined bed waste is non-haza <u>r</u> c	are not mixed with non-exempt wasters to for waste hazardous by in 40 CFR, part 261, subpart D, as lous. (Check the appropriate items):		
Driver/ Agent Signature		R360 Representa	tive Signature			
Customer Approval				<u></u>		

## THIS IS NOT AN INVOICE!

Approved By: \_\_\_\_\_

Date: \_\_\_\_\_

Received by OCD: 8/24/2021 2:16 RECEIVER SOLUTIONS Permian Basin	Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	JOHN THURSTON		Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	999908	IPS	
Facility: CRI							
Product / Service		Q	uantity Ur	nits			
Contaminated Soil (RCRA Exemp	t)		18.00 y	ards			
Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste         _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by         characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as         amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         _ MSDS Information       _ RCRA Hazardous Waste Analysis       _ Process Knowledge       _ Other (Provide description above)         Driver/ Agent Signature       Ra60 Representative Signature       _ Ra60 Representative Signature							
Customer Approval	THI	S IS NOT AN II	VVOIC	E!			
Approved By:		D	ate:				

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908
Facility: CRI				
Product / Service		Quanti	ty Units	
Completion Fluids (NON-INJ)		18	8.00 bbl	
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	ve described wa enerated from of e which is non-l gulations, 40 CF n is attached to	ste is: il and gas exploration and produc hazardous that does not exceed th R 261.21-261.24 or listed hazardo demonstrate the above-described	tion operations and the minimum standar ous waste as defined waste is non-hazard	are not mixed with non-exempt wast rds for waste hazardous by 1 in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representativ	e Signature	
Customer Approval				
	THI	S IS NOT AN INVO		
Approved By:		Date:		0

Received by OCD: 8/24/2021 2:16: RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	O6UJ9A000HH0 6/24/2021 CONOCOPHILL 999908			
Facility: CRI							
Product / Service		Quan	tity Units				
Contaminated Soil (RCRA Exemp	t)	18.00 yards					
Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste         _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by         characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as         amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         MSDS Information       _ RCRA Hazardous Waste Analysis       _ Process Knowledge       _ Other (Provide/description above)							
Driver/ Agent Signature		R360 Representat	ive Signature				
Customer Approval			$\bigvee$	The second second	All Alexandre		
	THI	S IS NOT AN INV	OICE!				
Approved By:		Date:					

Received by OCD: 8/24/2021 2:16: <b>Received by OCD:</b> 8/24/2021 2:1	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1219284 O6UJ9A000HH0 6/24/2021 CONOCOPHILL 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)	IPS
Facility: CRI					
Product / Service		Quantity I	Jnits		
Contaminated Soil (RCRA Exempt	t)	18.00	yards		
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes get RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	ve described wa nerated from oi e which is non-l ulations, 40 CF n is attached to	ste is: 1 and gas exploration and production hazardous that does not exceed the m R 261.21-261.24 or listed hazardous demonstrate the above-described wa	operations and inimum standar waste as defined ste is non-hazard	are not mixed with ds for waste hazard in 40 CFR, part 26 dous. (Check the ap	non-exempt wast lous by 51, subpart D, as opropriate items):
Driver/ Agent Signature		R360 Representative S	ignature		
Slace					
Customer Approval			$\bigcirc$		
	THI	S IS NOT AN INVOI	CE!		
Approved By:		Date:			

Received by OCD: 8/24/2021 2:10 <b>Received by OCD:</b> 8/24/2021 2:10 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	CONOCOPHILLIPS CRI2190 JOHN THURSTON 29 6/24/2021 MCNABB PARTNERS JOE M81	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1219353 Page 165 of 179 O6UJ9A000HH0 6/24/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)		
Facility: CRI						
Product / Service		Quar	ntity Units			
Contaminated Soil (RCRA Exemp	ot)	18.00 yards				
Generator Certification Statemer I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field wast characteristics established in RCRA re amended. The following documentation MSDS Information _ RCRA H Driver/ Agent Signature	esource Conserv ve described wa enerated from of te which is non- gulations, 40 CF on is attached to	vation and Recovery Act (RCR ste is: Il and gas exploration and prod hazardous that does not exceed R 261.21-261.24 or listed hazar demonstrate the above-describ	uction operations and the minimum standard dous waste as defined ed waste is non-hazard edge Other (Prov	are not mixed with non-exempt wasted ds for waste hazardous by in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):		
		K300 Representat	live Signature			
Customer Approval			$\bigcirc$			
	THI	S IS NOT AN INV	OICE!			
Approved By:		Date:				

Received by OCD: 8/24/2021 2:1 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	700-1219322 Page 166 of 179 O6UJ9A000HH0 6/24/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)
Facility: CRI		*		
Product / Service		Quan	tity Units	
Contaminated Soil (RCRA Exem	ipt)		18.00 yards	
Generator Certification Stateme I hereby certify that according to the H 1988 regulatory determination, the ab X RCRA Exempt: Oil Field wastes RCRA Non-Exempt: Oil field wa characteristics established in RCRA re amended. The following documentati MSDS Information RCRA H	Resource Conserv ove described wa generated from oi ste which is non-l egulations, 40 CF ton is attached to	ration and Recovery Act (RCRA ste is: 1 and gas exploration and produ- nazardous that does not exceed R 261.21-261.24 or listed hazard demonstrate the above-described	action operations and the minimum standar dous waste as defined ed waste is non-hazarg	are not mixed with non-exempt waste ds for waste hazardous by in 40 CFR, part 261, subpart D, as doug. (Check the appropriate items):
Driver/ Agent Signature		R360 Representat	ive Signature	
Click		· · · · ·		I I
Customer Approval				J
	тні	S IS NOT AN INV	OICE!	
Approved By:		Date:		

Received by OCD: 8/24/2021 2:16: Received by OCD: 8/24/2021 2:16: ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County		lips
Facility: CRI					
Product / Service		Quantity	Units		
Contaminated Soil (RCRA Exemp	t)	18.00	) yards		
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha Driver/ Agent Signature	esource Conserv ve described was enerated from oi e which is non-l gulations, 40 CF n is attached to	ation and Recovery Act (RCRA) an ste is: 1 and gas exploration and production nazardous that does not exceed the r R 261.21-261.24 or listed hazardous demonstrate the above-described wa	n operations and ninimum standar waste as defined aste is non-hazar Other (Prov	are not mixed with rds for waste hazard 1 in 40 CFR, part 26 dous. (Check the ap	n non-exempt waste dous by 51, subpart D, as opropriate items):
Diven Agent Signature	California and State States	Noo Representative C	Jighatare		
Customer Approval	THI	S IS NOT AN INVOI	CE!		
Approved By:		Date:			

Received by OCD: 8/24/2021 2:16.	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	O6UJ9A000HH0 6/24/2021 CONOCOPHILLIP	<i>age 168 of 179</i> S		
Facility: CRI							
Product / Service		Qua	antity Units				
Contaminated Soil (RCRA Exempt)			18.00 yards				
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha Driver/ Agent Signature	esource Conserv ve described wa nerated from oi e which is non-l ulations, 40 CF n is attached to azardous Waste	ration and Recovery Act (RCl ste is: 1 and gas exploration and pro- nazardous that does not exceed R 261.21-261.24 or listed haza demonstrate the above-descri Analysis Process Know <b>R360 Represent</b>	oduction operations and ed the minimum standar ardous waste as defined ibed waste is non-hazaro vledge Other (Prov ative Signature	are not mixed with no ds for waste hazardou in 40 CFR, part 261, dous. (Check the appre	on-exempt wast is by subpart D, as opriate items):		
	THI	S IS NOT AN IN	VOICE!				

Approved By:

Received by OCD: 8/24/2021 2:16	Customer #:	CONOCOPHILLIPS CRI2190 JOHN THURSTON 33 6/24/2021 MCNABB PARTNERS JOE M81	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1219391 Page 169 of 179 O6UJ9A000HH0 6/24/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)	
Facility: CRI					
Product / Service		Quantity Units			
Contaminated Soil (RCRA Exempt)		1	8.00 yards		
Generator Certification Statemen					
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation MSDS Information _ RCRA H	ve described wa enerated from o te which is non- gulations, 40 CF on is attached to	ste is: il and gas exploration and produ hazardous that does not exceed t R 261.21-261.24 or listed hazard demonstrate the above-described	ction operations and he minimum standar ous waste as defined d waste is non-hazard	are not mixed with non-exempt wasted for waste hazardous by l in 40 CFR, part 261, subpart D, as doug. (Check the appropriate items):	
Driver/ Agent Signature		R360 Representativ	ve Signature		
are					
Customer Approval					
v	тні	S IS NOT AN INV	OICE!		
Approved By:		Date:			

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	O6UJ9A000HH0 6/24/2021 CONOCOPHILL	IPS
Facility: CRI					
Product / Service		Quantity	/ Units		AT ALL AND
Contaminated Soil (RCRA Exempt)		18.00 yards			
1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA H	enerated from o te which is non- gulations, 40 CF on is attached to	il and gas exploration and product hazardous that does not exceed the R 261.21-261.24 or listed hazardou demonstrate the above-described	e minimum standar 1s waste as definec waste is non-hazar	ds for waste hazard in 40 CFR, part 26 dous. (Check the ap	fous by 51, subpart D, as opropriate items):
Driver/ Agent Signature		R360 Representative	Signature		
Customer Approval	THI	S IS NOT AN INVO	DICE! W		
Approved By:		Date:			

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #. Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field #: Field #: Rig: County			
Facility: CRI						
Product / Service		Quantity Units				
Contaminated Soil (RCRA Exempt)		18.00 yards				
Generator Certification Statement of Waste Status         I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July         1988 regulatory determination, the above described waste is:         X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):         MSDS Information       RCRA Hazardous Waste Analysis       Process Knowledge       Other (Provide description above)         Driver/ Agent Signature       R360 Representative Signature						
Driver/ Agent Signature						
Customer Approval				$\bigcirc$		
	TH	S IS NOT AN INVOI	CE!			
Approved By:		Date:				

Received by OCD: 8/24/2021 2:16	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County	
Facility: CRI				
Product / Service		Quantity L	Jnits	
Contaminated Soil (RCRA Exemp	t)	16.00	yards	
I hereby certify that according to the Ref 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	ve described wa enerated from of e which is non-l gulations, 40 CF n is attached to	ste is: il and gas exploration and production hazardous that does not exceed the m R 261.21-261.24 or listed hazardous v demonstrate the above-described was	operations and inimum standar vaste as defined ste is non-hazard	are not mixed with non-exempt waster ds for waste hazardous by l in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representative S	ignature	
Customer Approval	THI	S IS NOT AN INVOIO	E! Y	
Approved By:		Date:		

Received by OCD: 8/24/202T 2:10	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908
Facility: CRI				
Product / Service		Quantity I	Jnits	
Contaminated Soil (RCRA Exemp	Contaminated Soil (RCRA Exempt) 16.00 yards			
Generator Certification Statement I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha	source Conserv e described wa nerated from o e which is non- ulations, 40 CF n is attached to	vation and Recovery Act (RCRA) and iste is: il and gas exploration and production hazardous that does not exceed the m R 261.21-261.24 or listed hazardous v demonstrate the above-described was	operations and inimum standar waste as defined ste is non-hazard	are not mixed with non-exempt wast ds for waste hazardous by l in 40 CHR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature	17. 福建市電	R360 Representative S	ignature	
Customer Approval				
	THI	S IS NOT AN INVOIO	CE!	
Approved By:		Date:		

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1219545 Page 174 of 179 O6UJ9A000HH0 6/25/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)
Facility: CRI				
Product / Service		Quant	tity Units	
Contaminated Soil (RCRA Exemp	t)	1	18.00 yards	
Generator Certification Statemen I hereby certify that according to the Re 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentatio MSDS Information RCRA Here	esource Conserve ve described was enerated from o e which is non- gulations, 40 CF n is attached to	vation and Recovery Act (RCRA ste is: il and gas exploration and produ hazardous that does not exceed R 261.21-261.24 or listed hazard demonstrate the above-describe	uction operations and the minimum standar dous waste as defined ed waste is non-hazard	are not mixed with non-exempt waster rds for waste hazardous by 1 in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Driver/ Agent Signature		R360 Representati	ive Signature	
Clae	-			
Customer Approval				
	тні	S IS NOT AN INV	OICE!	ζ.
Approved By:		Date:		

Received by OCD: 8/24/2021 2:16: RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	CONOCOPHILLIPS CRI2190 JOHN THURSTON 39 6/25/2021 MCNABB PARTNERS GUMER M32	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1219586 O6UJ9A000HHC 6/25/2021 CONOCOPHILL 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)	IPS
Facility: CRI					
Product / Service		Quant	ity Units		
Contaminated Soil (RCRA Exempt) 16.00 yards					
Generator Certification Statement	of Waste Sta	atus			
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge _ RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation _ MSDS Information _ RCRA Ha	ve described wa nerated from oi e which is non-l ulations, 40 CF n is attached to	ste is: l and gas exploration and production nazardous that does not exceed the R 261.21-261.24 or listed hazardo demonstrate the above-described	ction operations and he minimum standar ous waste as defined I waste is non-hazare	are not mixed with ds for waste hazard in 40 CFR, part 26 doug. (Check the ap	non-exempt wasta ous by 1, subpart D, as propriate items):
Driver/ Agent Signature	17. series (34	R360 Representativ	ve Signature		
Customer Approval		A Sector Man Sector Sector	,		
	THI	S IS NOT AN INVO	DICE!		
Approved By:		Date: _			

Received by OCD: 8/24/2021 2:16: RECEIVER ON MENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	700-1219587 Page 176 of 179 O6UJ9A000HH0 6/25/2021 CONOCOPHILLIPS 999908 MCA 1 A HEADER NON-DRILLING LEA (NM)	
Facility: CRI					
Product / Service		Qua	uantity Units		
Contaminated Soil (RCRA Exempt)			18.00 yards		
Generator Certification Statement I hereby certify that according to the Ref 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes ge RCRA Non-Exempt: Oil field waste characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA H	esource Conser ve described wa enerated from o e which is non- gulations, 40 CI n is attached to	vation and Recovery Act (RCI aste is: il and gas exploration and pro hazardous that does not exceed FR 261.21-261.24 or listed haza demonstrate the above-descri	duction operations and d the minimum standar ardous waste as defined bed waste is non-hazar	I are not mixed with non-exempt waster rds for waste hazardous by d in 40 CFR, part 261, subpart D, as rdous. (Check the appropriate items):	
Driver/ Agent Signature		R360 Representa	ative Signature		
Customer Approval	TH	IS IS NOT AN IN		- J	
Approved By:		Dat	e:		

Received by OCD: 8/24/2021 2:16 REGENTAL SOLUTIONS Permian Basin	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	JOHN THUSTON NA~니	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908
Facility: CRI				
Product / Service		Quantity L		
Contaminated Soil (RCRA Exemp	t)	18.00	yards	
X RCRA Exempt: Oil Field wastes ge _ RCRA Non-Exempt: Oil field wastes characteristics established in RCRA reg amended. The following documentatio _ MSDS Information RCRA H Driver/ Agent Signature	e which is non- gulations, 40 CI n is attached to	hazardous that does not exceed the m FR 261.21-261.24 or listed hazardous v demonstrate the above-described was	inimum standar waste as defined ste is non-hazar Other (Pro	rds for waste hazardous by d in 40 CFR, part 261, subpart D, as dous. (Check the appropriate items):
Customer Approval				
6	TH	IS IS NOT AN INVOIO	CĘ!	
Approved By:		Date:	Y	
NEN HEADER				

Received by OCD: 8/24/2021 2:16 RB3600 ENVIRONMENTAL SOLUTIONS Permian Basin	Customer #:	JOHN THURSTON	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908	IPS
Facility: CRI					
Product / Service		Quantity	y Units		
Contaminated Soil (RCRA Exemp	ot)	16.00 yards			
I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g RCRA Non-Exempt: Oil field wastes characteristics established in RCRA re- amended. The following documentation MSDS Information RCRA H Driver/ Agent Signature	ve described wa enerated from o te which is non- gulations, 40 CF on is attached to	iste is: il and gas exploration and product hazardous that does not exceed the R 261.21-261.24 or listed hazardou demonstrate the above-described	ion operations and e minimum standau us waste as define waste is non-hazar eOther (Pre	l are not mixed with rds for waste hazard d in 40 CFR, part 20	n non-exempt wast dous by 61, subpart D, as ppropriate items):
Customer Approval	a strategic and				
	TH	S IS NOT AN INVO	ICE!		
Approved By:		Date:			

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

### **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

OGRID:
217817
Action Number:
44203
Action Type:
[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
bbillings	None	8/30/2021

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Action 44203